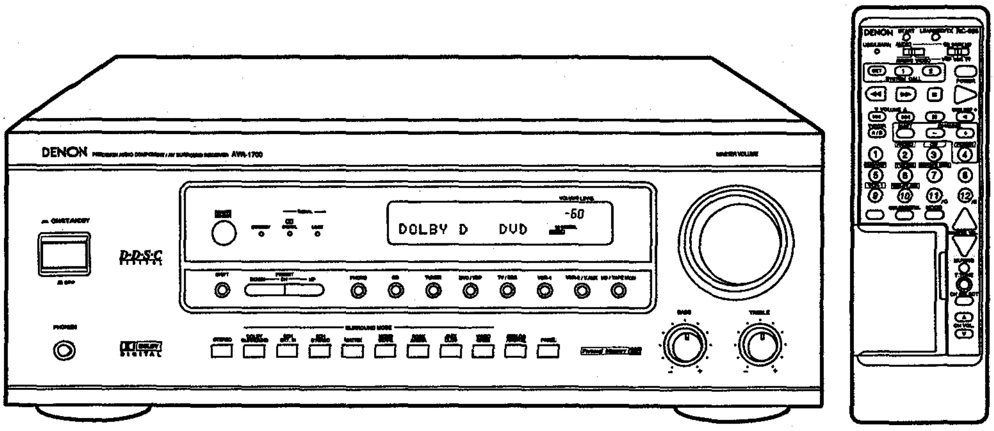
DENON

Hi-Fi AV Surround Receiver

SERVICE MANUAL

MODEL AVR-1700

AV SURROUND RECEIVER



This service manual is supplement for AVR-1700. For servicing, refer to the service manual of AVR-2700 (For U.S.A. model) already issued at the same time.

— TABLE OF CONTENTS —

SPECIFICATIONS 2
SEMICONDUCTORS .... 3~4
NOTE FOR PARTS LIST 4
PARTS LIST OF P.W.B. UNIT ASS'Y .... 5~15
EXPLODED VIEW OF CHASSIS AND CABINET 16
PARTS LIST OF EXPLODED VIEW AND REMOTE CONTROL UNIT 17,18
SCHEMATIC DIAGRAM .... 19~27

• Some illustrations using in this service manual are slightly different from the actual set.

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

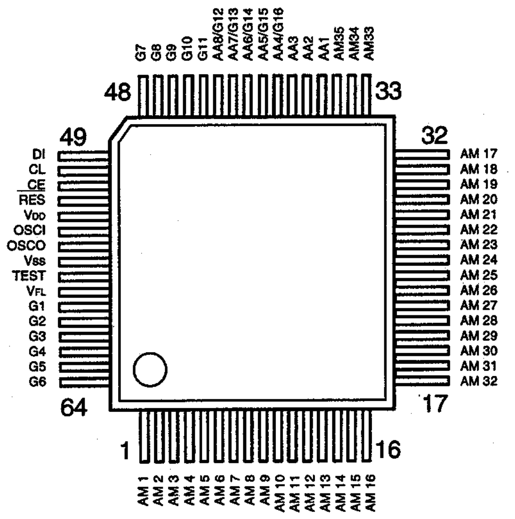
Audio section			
(Power amplifier)			
Rated output:	Front:	70 W + 70 W	(8 Ω/ohms, 20 Hz~20 kHz with 0.05 % T.H.D.)
		100 W + 100 W	(6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
	Center:	70 W	(8 Ω/ohms, 20 Hz~20 kHz with 0.05 % T.H.D.)
		100 W	(6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
	Surround:	70 W + 70 W	(8 Ω/ohms, 20 Hz~20 kHz with 0.05 % T.H.D.)
		100 W + 100 W	(6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Dynamic power:	90 W x 2 ch (8 Ω/ohms)		
	150 W x 2 ch (4 Ω/ohms)		
	180 W x 2 ch (2 Ω/ohms)		
Output terminals:	Front/Center:	A or B or Bi-wiring	6 to 16 Ω/ohms
		A + B	12 to 16 Ω/ohms
	Surround:	6 to 16 Ω/ohms	
(Analog)			
LINE input - PRE OUT			
Input sensitivity/Input impedance:	200 mV/47 kΩ/kohms		
Frequency response:	10 Hz~50 kHz: +1, -3dB		
S/N ratio:	96 dB (IHF-A weighted)		
Total harmonic distortion:	0.05 % (20 Hz~20kHz)		
Rated output:	1.2V		
PHONO input - REC OUT			
Input sensitivity/Input impedance:	2.5 mV/47 kΩ/kohms		
RIAA deviation:	±1 dB (20 Hz~20 kHz)		
S/N ratio:	74 dB (IHF-A weighted, with 5 mV input)		
Total harmonic distortion:	0.03 % (1 kHz, 3 V)		
Rated output/Maximum output:	150 mV/7 V		
Maximum headphones output:	27 mW (8 Ω/ohms)		
(Digital)			
D/A output			
Rated output:	2 V (at 0 dB playback)		
Total harmonic distortion:	0.01 % (1 kHz, at 0 dB)		
S/N ratio:	102 dB (IHF-A weighted)		
Dynamic range:	93 dB		
Digital input:	Format - Digital audio interface		
Video section			
(standard video jacks)			
Input/output level and impedance:	1 V p-p, 75 Ω/ohms		
Frequency response:	5 Hz~10MHz: +1, -3 dB		
Tuner section			
	[FM] (note: µV at 75 Ω/ohms, 0 dBf=1 x 10^{-15}W)		**[AM]**
Receiving range:	87.50 MHz~107.90 MHz		520 kHz~1710 kHz
Usable sensitivity:	1.0 µV (11.2 dBf)		
50 dB quieting sensitivity:	MONO	1.6 µV (15.3 dBf)	
	STEREO	23 µV (38.5 dBf)	
S/N ratio:	MONO	80 dB (IHF-A weighted)	
	STEREO	75 dB (IHF-A weighted)	
Total harmonic distortion:	MONO	0.15 % (1 kHz)	
	STEREO	0.3 % (1 kHz)	
General			
Power supply:	AC120 V, 60 Hz		
Power Consumption:	4.1 A		
Maximum extermal dimensions:	434 (W) x 161 (H) x 416 (D) mm (17-3/32" x 6-11/32" x 16-3/8")		
Weight:	10.9 kg (24 lbs)		
Remote control unit (RC-855)			
Batteries:	R6P/AA Type (two batteries)		
External dimensions:	70 (W) x 215 (H) x 19 (D) mm (2-3/3" x 8-15/32" x 3/4")		
Weight:	180 g (Approx. 6 oz) (including batteries)		

*For purposes of improvement, specifications and design are subject to change without notice.

SEMICONDUCTORS

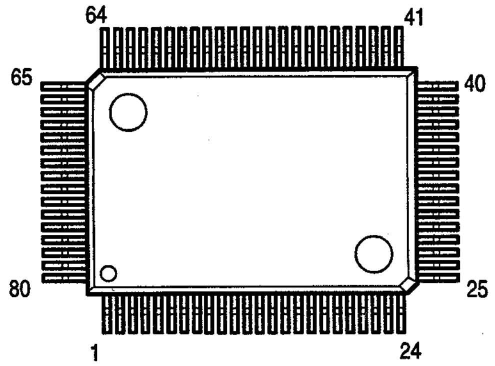
●IC's

LC75721NE (VI: IC102)


G7
G8
G9
G10
G11
AA8/G12
AA7/G13
AA6/G14
AA5/G15
AA4/G16
AA3
AA2
AA1
AM35
AM34
AM33
48
33
49
32
DI
CL
CE
RES
VDD
OSCI
OSCO
Vss
TEST
VFL
G1
G2
G3
G4
G5
G6
64
17
AM 17
AM 18
AM 19
AM 20
AM 21
AM 22
AM 23
AM 24
AM 25
AM 26
AM 27
AM 28
AM 29
AM 30
AM 31
AM 32
1
16
AM 1
AM 2
AM 3
AM 4
AM 5
AM 6
AM 7
AM 8
AM 9
AM 10
AM 11
AM 12
AM 13
AM 14
AM 15
AM 16

Symbol	Function
V_{DD}	Power terminal +5V
Vss	Power terminal GND
V_{FL}	Power terminal FL drive
DI CL CE	Serial data transfer terminal DI: Data CL: Clock CE: Chip enable
OSCI OSCO	External CR connecting terminal
$\overline{RES}$	System reset terminal
AM1~AM35 AA1~AA3	Anode output terminal
AA4/G16 AA5/G15 AA6/G14 AA7/G13 AA8/G12	Anode/Grid output terminal
G1~G11	Grid output terminal
TEST	LSI test terminal

TMP87CS71F-** (CO: IC113)**


64
41
65
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80
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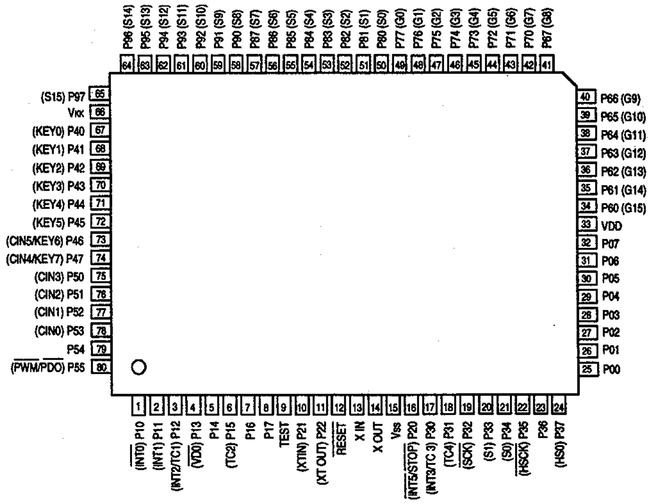
1
24


P96 (S14)
P95 (S13)
P94 (S12)
P93 (S11)
P92 (S10)
P91 (S9)
P90 (S8)
P87 (S7)
P86 (S6)
P85 (S5)
P84 (S4)
P83 (S3)
P82 (S2)
P81 (S1)
P80 (S0)
P77 (G0)
P76 (G1)
P75 (G2)
P74 (G3)
P73 (G4)
P72 (G5)
P71 (G6)
P70 (G7)
P67 (G8)
64
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53
52
51
50
49
48
47
46
45
44
43
42
41
(S15) P97 65
Vkk 66
(KEY0) P40 67
(KEY1) P41 68
(KEY2) P42 69
(KEY3) P43 70
(KEY4) P44 71
(KEY5) P45 72
(CIN5/KEY6) P46 73
(CIN4/KEY7) P47 74
(CIN3) P50 75
(CIN2) P51 76
(CIN1) P52 77
(CIN0) P53 78
P54 79
(PWM/PDO) P55 80
40 P66 (G9)
39 P65 (G10)
38 P64 (G11)
37 P63 (G12)
36 P62 (G13)
35 P61 (G14)
34 P60 (G15)
33 VDD
32 P07
31 P06
30 P05
29 P04
28 P03
27 P02
26 P01
25 P00
1 (INT0) P10
2 (INT1) P11
3 (INT2/TC1) P12
4 (VD0) P13
5 P14
6 (TC2) P15
7 P16
8 P17
9 TEST
10 (XTIN) P21
11 (XT OUT) P22
12 RESET
13 X IN
14 X OUT
15 Vss
16 (INT5/STOP) P20
17 (INT3/TC 3) P30
18 (TC4) P31
19 (SCK) P32
20 (S1) P33
21 (S0) P34
22 (HSCK) P35
23 P36
24 (HS0) P37

TMP87CS71F-** (IC113) Terminal Function**

Pin No.	Port Name	Symbol	I/O	Type	Op	Det	Res	Init	Function
1	P10/INT 0	PROTECTION IN	I	—	Eu	E&L	Z	—	Protection detecting input. (L: Detection)
2	P11/INT 1	DSP CLK IN	I	—	Eu	Ed	Z	—	DSP control terminal.
3	P12/INT 2	RDS START	I	—	Eu	Ed	Z	H	RDS data input (LC7074). *Europe model only.
4	P13/DVO	STEREO/MONO	O	C	—	—	Z	L	STEREO/MONO control signal. (L: STEREO receiving)
5	P14	PLL-ST	O	C	—	—	Z	L	LC72131 control output.
6	P15/TC2	TAPE MONITOR	O	C	—	—	Z	H	Tape monitor control output. (H: Tape monitor ON).
7	P16		O	C	—	—	Z	L	
8	P17	TUNED SIGNAL	I	—	Eu	Lv	Z	—	Tuning detection. (L: Tuning)
9	TEST	TEST	I	—	GND	S	—	—	Connect to ground.
10	P21/XTIN	STEREO SIGNAL	I	—	Eu	Lv	Z	—	STEREO control signal. (L: STEREO receiving)
11	P22/XTO	SCL	O	N	Eu	—	Z	H	MAIN-SUB microcomputer communication control terminal.
12	RESET	RESET	I	—	Eu	Lv	L	—	Reset input.
13	XIN	XIN	I	—	—	—	—	—	Oscillator circuit terminal. (4MHz)
14	XOUT	XOUT	O	—	—	—	—	—	Oscillator circuit terminal. (4MHz)
15	VSS	VSS	I	—	GND	—	—	—	Ground.
16	P20/INT 5	POWER OFF	I	—	Eu	Lv	Z	—	Power OFF detection terminal. (L: Power OFF)
17	P30/INT 3	REMOCON	I	—	Ed	E&L	Z	—	Remote signal input.
18	P31/TC4	SDA	O	N	Eu	S	Z	H	MAIN-SUB microcomputer communication control terminal.
19	P32/SCK	RDS CLK	I	—	—	S	Z	—	RDS clock input (LC7074). * Europe model only.
20	P33/SI	RDS DATA	I	—	—	S	Z	—	RDS data input (LC7074). * Europe model only.
21	P34/SO	RDS RES	O	N	Eu	—	Z	H	RDS reset output (LC7074). * Europe model only.
22	P35/HSCK		O	N	—	—	Z	L	
23	P36		O	N	—	—	Z	L	
24	P37/HSO		O	N	—	—	Z	L	
25	P00		O	C	—	—	Z	L	
26	P01	FL RES	O	C	—	—	Z	L	Fluorescent display control output. (LC75721NE)
27	P02	FLPL DATA	O	C	—	S	Z	H	Fluorescent display & PLL control output. (LC75721NE & LC72131)
28	P03	FLPL CLK	O	C	—	S	Z	H	Fluorescent display & PLL control output. (LC75721NE & LC72131)
29	P04	FUNC ST2	O	C	—	—	Z	L	Function control output. (NJU7313AL) 5.1CH decoder.
30	P05	FUNC CK	O	C	—	S	Z	L	Function control output. (TC9273N, NJU7313AL)
31	P06	FUNC DATA	O	C	—	S	Z	L	Function control output. (TC9273N, NJU7313AL)
32	P07	FUNC ST1	O	C	—	—	Z	L	Function control output. (TC9273N).
33	VDD	VDD	I	—	—	—	—	—	Connect to +5V power supply.
34	P60	E. VOL CE2	O	P	Id	—	L	L	Electronic volume control output. (LC7536) (Center/Sub woofer, Surround L/R)
35	P61	E. VOL CE1	O	P	Id	—	L	L	Electronic volume control output. (LC7536) (Front L/R)
36	P62	E. VOL CK	O	P	Id	—	L	H	Electronic volume control output. (LC7536)
37	P63	E. VOL DATA	O	P	Id	—	L	H	Electronic volume control output. (LC7536)
38	P64		O	P	Id	—	L	L	
39	P65	ERR MUTE	O	P	Id	—	L	H	Pop noise prevention control terminal. (H: Power ON)
40	P66	96DET	I	—	Id	—	L	L	Sampling frequency detection terminal. (H: 96kHz)
41	P67	SELCK	O	P	Id	—	L	H	DIR control terminal. (CS8414) (H: Digital, L: Analog)
42	P70	TUNER MUTE	O	P	Id	—	H	H	Tuner mute output. (H: Mute)
43	P71	SEL	O	P	Id	—	L	H	DIR control terminal. (CS8414)
44	P72	FL CE	O	P	Id	—	L	H	Fluorescent display control output. (LC75721NE)
45	P73	STANDBY LED	O	P	Id	—	L	H	Standby indication LED drive output. (H: Lighting)
46	P74	DOLBY DIGITAL LED	O	P	Id	—	L	L	Dolby Digital indication LED drive output. (H: Lighting)
47	P75	LOCK LED	O	P	Id	—	L	L	Lock indication LED drive output. (H: Lighting)
48	P76		O	P	Id	—	L	L	
49	P77	VOL MUTE	O	P	Id	—	L	L	Control signal at minus infinite of master volume. (L: infinite)
50	P80	SW-MUTE	O	P	Id	—	L	H	Subwoofer mute output. (L: Mute)
51	P81	SP-A	O	P	Id	—	L	H	Front speaker relay control output. (L: Mute)
52	P82	RL-C	O	P	Id	—	L	H	Center speaker relay control output. (L: Mute)
53	P83	RL-S	O	P	Id	—	L	L	Surround speaker relay control output. (L: Mute)
54	P84	H/P MUTE	O	P	Id	—	L	H	Headphone relay control output. (L: Mute)
55	P85		O	P	Id	—	L	L	

Pin No.	Port Name	Symbol	I/O	Type	Op	Det	Res	Ini	Function
56	P86	POWER	O	P	Id	—	L	H	Power supply relay control output. (H: ON)
57	P87	AC-3 MUTE	O	P	Id	—	L	H	Digital mute control terminal (L: AC-3).
58	P90		I	—	Id	—	L	L	
59	P91	AC-3 DET.	I	—	Id	—	L	—	AC-3 decode data input terminal. (L: AC-3 decode)
60	P92	F0	I	—	—	—	L	—	DIR control input terminal. (CS8414)
61	P93	F1	I	—	—	—	L	—	DIR control input terminal. (CS8414)
62	P94	F2	I	—	—	—	L	—	DIR control input terminal. (CS8414)
63	P95	CSI	I	—	Id	—	L	—	DIR control input terminal. (ZR38600) (L: PCM)
64	P96	ERR	I	—	Id	—	L	—	DIR control input terminal. (ZR38600) (H: ERR)
65	P97		O	P	Id	—	L	L	
66	VKK	VKK	I	—	—	—	—	—	Connect to ground.
67	P40/KEY0		O	N	—	—	L	L	
68	P41/KEY1		O	N	—	—	L	L	
69	P42/KEY2		O	N	—	—	L	L	
70	P43/KEY3	MVOL SELB	I	—	Eu	Lv	Z	H	Master volume setting signal. (Rotary encode)
71	P44/KEY4	MVOL SELA	I	—	Eu	Lv	Z	H	Master volume setting signal. (Rotary encode)
72	P45/KEY5		O	N	—	—	L	L	
73	P46/CIN5	MODE	I	—	Eu	Lv	Z	—	Export country mode switching input.
74	P47/CIN4	DAC PD	O	N	Eu	—	L	—	DAC power down control terminal. (L: Power down).
75	P50/CIN3	KEY4	I	—	Eu	Lv	Z	H	Key input 4.
76	P51/CIN2	KEY3	I	—	Eu	Lv	Z	H	Key input 3.
77	P52/CIN1	KEY2	I	—	Eu	Lv	Z	H	Key input 2.
78	P53/CIN0	KEY1	I	—	Eu	Lv	Z	H	Key input 1.
79	P54	SUB SYNC 1	I	—	Eu	Lv	Z	H	SUB microcomputer sync input.
80	P55/PMW	SO/ZORAN	I	—	Eu	Lv	Z	H	DSP data input terminal. (ZR38600)

NOTE:

Pin No.	: Terminal number of microcomputer.		
Port Name	: The name entered in the data sheet of microcomputer.		
Symbol	: Symbolized interface function.		
I/O	: Input or out of part.		
		"I"	= Input port
		"O"	= Output port
Type	: Composition of port in case of output port.		
		"C"	= CMOS output
		"N"	= NMOS open drain output
		"P"	= PMOS open drain output
Op	: Pull up/Pull down selection information.		
		"Iu"	= Inner microcomputer pull up
		"Id"	= Inner microcomputer pull down
		"Eu"= External microcomputer pull up	
		"Ed"= External microcomputer pull down	
Det	: Indicates judging state of input port. Level detection is "LV"; Edge detection is "Ed"; Detection by both shifting is "E&L"; Serial data detection is "S" (Serial data output is also "S").		
Res	: State at reset.		
		"H"	= Outputs High Level at reset
		"L"	= Outputs Low Level at reset
		"Z"	= Becomes High impedance mode at reset
Ini	: Initial output state.		
Function	: Function and logical level explanation of signals to be interface.		

NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.:	RN	14K	2E	182	G	FR
	Type	Shape and performance	Power	Resistance	Allowable error	Others

RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : Metal film RK : Metal mixture	2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming

*** Resistance**

1 8 2 ⇒ 1800 ohm = 1.8 kohm
2 — Indicates number of zeros after effective number.
1 8 — 2-digit effective number.
- Units: ohm

1 R 2 ⇒ 1.2 ohm
2 — 1-digit effective number.
1 R — 2-digit effective number, decimal point indicated by R.
- Units: ohm

● Capacitors

Ex.:	CE	04W	1H	2R2	M	BP
	Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others

CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CQ : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% −0% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For change and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming

*** Capacity (electrolyte only)**

2 2 2 ⇒ 2200µF
2 — Indicates number of zeros after effective number.
2 2 — 2-digit effective number.
- Units: µF.

2 R 2 ⇒ 2.2µF
2 — 1-digit effective number.
2 R — 2-digit effective number, decimal point indicated by R.
- Units: µF.

*** Capacity (except electrolyte)**

2 2 2 ⇒ 2200pF=0.0022µF
2 — (More than 2) — Indicates number of zeros after effective number.
2 2 — 2-digit effective number.
- Units: µF.

2 2 1 ⇒ 220pF
1 — (0 or 1) — Indicates number of zeros after effective number.
2 2 — 2-digit effective number.
- Units: pF.

- When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.BOARD

1U-3105F TUNER AMP. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	262 2214 007	IC LC7536	
IC103~106	263 0896 909	IC NJM2068MD	
IC107,108	262 2214 007	IC LC7536	
IC109,110	263 0896 909	IC NJM2068MD	
IC501	216 0102 008	Front end	
IC502	263 0891 001	IC LA1265(S)	
IC503	263 0439 007	IC LA3401	
IC507	262 2450 900	IC LC72131M-TLM	
IC705	262 1853 100	IC NJU7313AL	
TR401,402	273 0253 918	Transistor 2SC2878(A/B)	
TR403~406	271 0094 919	Transistor 2SA970(BL)	
TR409,410	273 0281 906	Transistor 2SC2705(O)/(Y)	
TR421,422	273 0253 918	Transistor 2SC2878(A/B)	
TR423~426	271 0094 919	Transistor 2SA970(BL)	
TR429,430	273 0281 906	Transistor 2SC2705(O)/(Y)	
TR441	273 0253 918	Transistor 2SC2878(A/B)	
TR442,443	271 0094 919	Transistor 2SA970(BL)	
TR445	273 0281 906	Transistor 2SC2705(O)/(Y)	
TR502	273 0438 908	Transistor 2SC2413K(Q)	
TR503,504	269 0083 901	Transistor DTA114EK	
TR505	269 0114 906	Transistor RN2402	
TR508	269 0054 901	Transistor DTC144EK	
TR509,510	269 0066 902	Transistor DTC323TK	
TR511	269 0086 908	Transistor DTA114TK	
D501	276 0401 905	Diode 1SS133	
D503~505	276 0401 905	Diode 1SS133	
ZD502	276 0644 937	Zener diode MTZJ9.1A	9.1V
RESISTORS GROUP			
R101	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R102	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B–332J
R111,112	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R113,114	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B–224J
R115,116	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R117,118	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R119,120	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R121,122	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R123~126	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B–102J
R127,128	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R129,130	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R131,132	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B–224J
R133,134	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R135,136	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R137,138	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R139,140	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B–751J
R141	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R142	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R143,144	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R145,146	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R147,148	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R149,150	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B–224J
R151,152	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R153,154	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R155,156	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R157,158	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R159,160	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B–751J
R161,162	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R163,164	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R165,166	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R167,168	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R181~186	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R429,430	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBS
R501	247 0002 966	Carbon chip 10 ohm 1/10W	RM73B–100J
R503	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B–102J
R504,505	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R507~512	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R514,515	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R516	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B–102J
R518	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B–221J
R519	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B–471J
R520	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B–102J
R521	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R522	247 0006 920	Carbon chip 330 ohm 1/10W	RM73B–331J
R523	247 0007 961	Carbon chip 1.2 kohm 1/10W	RM73B–122J
R524	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R525	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B–102J
R526	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B–562J
R527	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R528	247 0008 944	Carbon chip 2.7 kohm 1/10W	RM73B–272J
R529	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B–102J
R531,532	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R533	247 0010 929	Carbon chip 15 kohm 1/10W	RM73B–153J
R534	247 0005 921	Carbon chip 120 ohm 1/10W	RM73B–121J
R535	247 0010 945	Carbon chip 18 kohm 1/10W	RM73B–183J
R536	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R537	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B–683J
R539	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B–562J
R539	247 0009 943	Carbon chip 6.8 kohm 1/10W	RM73B–682J
R540	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R541	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R542,543	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B–332J
R544,545	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R546	247 0011 973	Carbon chip 62 kohm 1/10W	RM73B–623J

Ref. No.	Part No.	Part Name	Remarks
R547	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R548	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R549	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R550	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B–562J
R551	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R553,554	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B–332J
R555,556	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B–562J
R571,572	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B–275J
R575,576	247 0012 943	Carbon chip 120 kohm 1/10W	RM73B–124J
R577	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B–223J
R578~582	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R592,593	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B–471J
R595	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R609,610	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBS
R644~649	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R674	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBS
R701,702	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B–275J
R705,706	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B–471J
R717,718	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B–275J
R721,722	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B–471J
R733,734	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B–275J
R737,738	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B–471J
R739	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R793~798	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
VR501	211 6132 925	Semi fixed resistor 10 kohm	V06PB103
VR502	211 6132 983	Semi fixed resistor 100 kohm	V06PB104
CAPACITORS GROUP			
C103,104	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C109~112	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C117,118	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C119,120	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C125,126	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C127,128	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C131,132	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C134	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C137,138	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C141,142	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C147,148	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C149,150	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C153,154	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C159,160	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C163,164	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C401,402	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C403,404	253 4538 949	Ceramic 100 pF/50V	CC45SL1H101J(DD-3)
C405,406	253 4537 924	Ceramic 33 pF/50V	CC45SL1H330J(DD-3)
C407,408	253 4482 901	Ceramic 33 pF/500V	CC45SL2H330J

Ref. No.	Part No.	Part Name	Remarks
C409,410	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C411,412	255 4202 941	Polypropylene film 1000 pF/50V	CQ93P1H102J
C413	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C415,416	254 4254 912	Electrolytic 22µF/16V	CE04W1C220M
C431,432	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C433,434	253 4538 949	Ceramic 100 pF/50V	CC45SL1H101J(DD-3)
C435,436	253 4537 924	Ceramic 33 pF/50V	CC45SL1H330J(DD-3)
C437,438	253 4482 901	Ceramic 33 pF/500V	CC45SL2H330J
C439,440	255 4202 941	Polypropylene film 1000 pF/50V	CQ93P1H102J
C441,442	254 4254 912	Electrolytic 22µF/16V	CE04W1C220M
C455,456	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C460	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C461	253 4538 949	Ceramic 100 pF/50V	CC45SL1H101J(DD-3)
C462	253 4537 924	Ceramic 33 pF/50V	CC45SL1H330J(DD-3)
C463	253 4482 901	Ceramic 33 pF/500V	CC45SL2H330J
C464	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C465	255 4202 941	Polypropylene film 1000 pF/50V	CQ93P1H102J
C466	254 4254 912	Electrolytic 22µF/16V	CE04W1C220M
C501,502	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C503~505	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C507,508	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C509	257 0002 947	Ceramic chip 12 pF/50V	CC73SL1H120J
C510	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C511	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C512	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C513	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C514	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C515	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C516,517	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C520	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C521~523	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C524	254 4260 935	Electrolytic 0.47µF/50V	CE04W1HR47M
C525	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C526	257 0010 942	Ceramic chip 0.022µF/50V	CK73B1H223K
C527	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C528	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C529	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C530	254 4260 919	Electrolytic 0.22µF/50V	CE04W1HR22M
C531	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C532	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C533	256 1058 939	Metalized 0.047µF/50V	CF93A1H473J (JL)
C534	256 1058 942	Metalized 0.056µF/50V	CF93A1H563J (JL)
C535	254 3053 910	Electrolytic 22µF/16V	CE04D1C220MBP
C536	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C538	254 4254 912	Electrolytic 22µF/16V	CE04W1C220M
C539,540	257 0006 972	Ceramic chip 750 pF/50V	CC73SL1H751J
C541	254 4260 951	Electrolytic 2.2µF/50V	CE04W1H2R2M
C544	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C545,546	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C557,558	257 0002 963	Ceramic chip 15 pF/50V	CC73SL1H150J
C559	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M

Ref. No.	Part No.	Part Name	Remarks	
C561	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z	
C562	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	
C570	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M	
C571	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M	
C574	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J	
C587	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	
C588	256 1058 900	Metalized 0.027µF/50V	CF93A1H273J (JL)	
C731	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z	
C753,754	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M	
OTHER PARTS				**Q'ty**
CF501	261 0135 907	Ceramic filter MA8		1
CF502	261 0136 906	Ceramic filter MS2G		1
CF503	261 0079 005	Ceramic resonator CSB456F11		1
CF504	261 0031 001	Ceramic filter BFU450C4		1
CF505	261 0116 007	Ceramic filter SFU450B3		1
CW052~055	205 0885 008	5P connector socket (TUC-P)		4
CW082	205 0885 095	8P connector socket (TUC-P)		1
CW101	205 0885 053	10P connector socket (TUC-P)		1
CW112,113	205 0885 066	11P connector socket (TUC-P)		2
CW121	205 0885 079	12P connector socket (TUC-P)		1
CW142	205 0885 011	14P connector socket (TUC-P)		1
CW154	205 0885 040	15P connector socket (TUC-P)		1
CW961	205 0942 019	6P connector socket (TUC-P)		1
CX931	205 0190 036	3P NH connector base		1
FB501	235 0049 900	Beads inductor		1
JK501	205 0847 004	3P antenna terminal (PAL/F)		1
JK502	204 8562 003	2P pin jack (S-GND)		1
JK701	204 8513 010	6P pin jack (S-GND)		1
L504	235 0060 905	Inductor 2.2µH		1
L510	235 0060 950	Inductor 10µH		1
T501	231 2096 001	MW ant.-osc. coil		1
T502	231 2085 009	FM DET trans.		1
T503	231 1138 009	AM IFT		1
XL503	399 0075 003	Crystal 7.2 MHz		1
	205 1034 010	M3 Screw terminal		1
	414 0847 006	Earth plate		1

1U-3106F DISPLAY VIDEO UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	499 0290 007	Remocon sensor GP1U271X	
IC102	262 2549 002	IC LC75721E	
IC201	263 0609 002	IC NJM2068DDC	
IC303	262 2579 001	IC SN74HC151N	
IC306	269 0172 003	Optical connector GP1F37R	
IC307	262 2578 002	IC SN74HCU04N	
IC401	263 0856 004	IC BA7625	
TR101~103	269 0020 906	Transistor DTC114ES(10K-10K)	
TR106	269 0046 906	Transistor DTA114ES(10K-10K)	
TR107	269 0054 901	Transistor DTC144EK	
TR108	269 0055 900	Transistor DTA144EK	
TR109	269 0054 901	Transistor DTC144EK	
TR110	269 0055 900	Transistor DTA144EK	
TR111	269 0054 901	Transistor DTC144EK	
TR112	269 0055 900	Transistor DTA144EK	
TR402~404	271 0290 904	Transistor 2PA1015GR	
D101,102	276 0559 909	Diode DAP202K	
D103	276 0401 905	Diode 1SS133	
D301	276 0401 905	Diode 1SS133	
D308	276 0401 905	Diode 1SS133	
ZD101,102	276 0637 902	Zener diode MTZJ6.2A	6.2V
ZD103	276 0644 937	Zener diode MTZJ9.1A	9.1V
LD101,102	393 9434 906	LED SEL1210S	Red
LD103	393 9452 904	LED SEL1410E	Green
FL101	393 8033 007	FLD (CM1690C)	
RESISTORS GROUP			
R124,125	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R142	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R198	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
VR201	211 0883 018	Variable resistor 30 kohm	V14P25FC303K
VR202	211 0883 005	Variable resistor 10 kohm	V14P25FC103K

Ref. No.	Part No.	Part Name	Remarks
CAPACITORS GROUP			
C102	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C104	254 4196 944	Electrolytic 1µF/50V	CE04W1H010M (SRA)
C106	254 4261 921	Electrolytic 100µF/50V	CE04W1H101M
C107	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C108	254 4250 945	Electrolytic 330µF/6.3V	CE04W0J331M
C109	257 0003 933	Ceramic chip 30 pF/50V	CC73SL1H300J
C110,111	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C117	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C121	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C201,202	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C203,204	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C205,206	253 4537 924	Ceramic 33 pF/50V	CC45SL1H330J(DD-3)
C207,208	255 1264 940	Mylar film 2200 pF/50V	CQ93M1H222J(B)
C209,210	256 1059 909	Metalized 0.18µF/50V	CF93A1H184J (JL)
C211,212	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C215,216	255 1265 949	Mylar film 0.012µF/50V	CQ93M1H123J(B)
C217,218	256 1058 942	Metalized 0.056µF/50V	CF93A1H563J (JL)
C219,220	254 4260 922	Electrolytic 0.33µF/50V	CE04W1HR33M
C231,232	253 4538 949	Ceramic 100 pF/50V	CC45SL1H101J(DD-3)
C233,234	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C301	253 9039 906	Ceramic 0.1µF/25V	CK45=1E104Z(DD-3)
C302	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C304	254 4254 925	Electrolytic 33µF/16V	CE04W1C330M
C307	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C308	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C309	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C358	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C360	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C391	254 4254 925	Electrolytic 33µF/16V	CE04W1C330M
C393,394	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C395,396	253 4536 983	Ceramic 22 pF/50V	CC45SL1H220J(DD-3)
C401~404	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C407~409	254 4250 958	Electrolytic 470µF/6.3V	CE04W0J471M
C411	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C413	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C415	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M
C416	253 1181 917	Ceramic 0.022µF/50V	CK45F1H223Z(DD-3)
C417	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C418	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M

Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER PARTS				
CW081	204 2422 026	8P KR-DA connector cord		1
CW103	204 2253 020	10P KR-DA connector cord		1
CW122	205 0885 079	12P connector socket (TUC-P)		1
CW132	205 0942 006	13P connector socket (TUC-P)		1
CW962	205 0942 019	6P connector socket (TUC-P)		1
CX025	205 0644 003	2P wrapping terminal		1
CX181	205 1055 031	18P connector base (TKC-V)		1
FB101	235 0049 900	Beads inductor		1
JK301	204 8552 000	2P pin jack (FG-DIG)		1
JK401,402	204 8516 017	3P pin jack		2
JK403	204 8512 008	1P pin jack		1
L302	235 0060 905	Inductor 2.2µH		1
L303	235 0060 918	Inductor 4.7µH		1
L305	235 0060 905	Inductor 2.2µH		1
S101~122	212 4809 907	Tact switch (MARU)		22
S128	212 0373 000	Rotary encorder EC16B		1
	414 0846 007	Shield plate (F)		1

1U-3107F CONTROL UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC113	262 2548 003	IC TMP87CS71F-****	MAIN-UCOM
IC281	263 0896 909	IC NJM2068MD	
IC282	263 0615 902	IC BA15218F	
TR102	269 0083 901	Transistor DTA114EK	
TR103	269 0054 901	Transistor DTC144EK	
TR104	274 0163 904	Transistor 2SD601A	
TR105	269 0054 901	Transistor DTC144EK	
TR106	271 0131 924	Transistor 2SA988(E/F)	
TR112,113	269 0046 906	Transistor DTA114ES(10K-10K)	
TR114	269 0054 901	Transistor DTC144EK	
TR115	269 0055 900	Transistor DTA144EK	
TR116,117	275 0094 908	FET 2SK209-GR	
TR118	269 0055 900	Transistor DTA144EK	
TR120	269 0020 906	Transistor DTC114ES(10K-10K)	
TR281	269 0054 901	Transistor DTC144EK	
TR282	269 0055 900	Transistor DTA144EK	
TR283	275 0094 908	FET 2SK209-GR	
TR567,568	273 0253 918	Transistor 2SC2878(A/B)	
TR603,604	271 0131 924	Transistor 2SA988(E/F)	
TR605	273 0445 001	Transistor 2SC4495	
TR606	271 0131 924	Transistor 2SA988(E/F)	
D102	276 0553 905	Diode 1SR35-200A	
D103	276 0401 905	Diode 1SS133	
D105	276 0401 905	Diode 1SS133	
D106,107	276 0553 905	Diode 1SR35-200A	
D125,126	276 0553 905	Diode 1SR35-200A	
D128~131	276 0401 905	Diode 1SS133	
D280	276 0401 905	Diode 1SS133	
D601~611	276 0401 905	Diode 1SS133	
ZD100	276 0645 978	Zener diode MTZJ36A	36V
ZD102	276 0643 996	Zener diode MTZJ5.6A	5.6V
ZD103	276 0634 905	Zener diode MTZJ3.3A	3.3V
RESISTORS GROUP			
R152,153	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R155,156	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R158	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R160	247 0008 928	Carbon chip 2.2 kohm 1/10W	RM73B–222J
R161~165	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R167	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R171~173	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B–102J
R174	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R186~189	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R190	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R191~193	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R194	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R198	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R201	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R202	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B–224J
R203	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R204	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R205	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R206	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R207~209	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B–102J
R210	241 2387 940	Carbon film 4.7 ohm 1/4W(NB)	RD14B2E4R7JNBS
R212	241 2387 940	Carbon film 4.7 ohm 1/4W(NB)	RD14B2E4R7JNBS
R224~226	244 2055 996	Metal oxide 1.2 kohm 1W	RS14B3A122JNBS(S)
R231	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R281~286	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R287,288	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R289,290	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R291	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R292	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B–562J
R293	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R294	247 0009 930	Carbon chip 6.2 kohm 1/10W	RM73B–622J
R295	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R296	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R297	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R299	247 0010 916	Carbon chip 13 kohm 1/10W	RM73B–133J
R751,752	244 2052 960	Metal oxide 220 ohm 1W	RS14B3A221JNBS(S)
CAPACITORS GROUP			
C101	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C141	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C147~149	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C158,159	257 0004 903	Ceramic chip 56 pF/50V	CC73SL1H560J
C172	257 0014 935	Ceramic chip 0.1μF/25V	CK73F1E104Z
C173	254 4254 909	Electrolytic 10μF/16V	CE04W1C100M
C174	254 4250 932	Electrolytic 220μF/6.3V	CE04W0J221M
C175	256 1058 984	Metalized 0.12μF/50V	CF93A1H124J (JL)
C176	254 4260 977	Electrolytic 4.7μF/50V	CE04W1H4R7M
C177	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C178	259 0007 702	Back up cap. 8200μF/5.5V	SB CAP==822=C
C179	257 0012 966	Ceramic chip 0.01μF/50V	CK73F1H103Z
C181	254 4252 969	Electrolytic 470μF/10V	CE04W1A471M
C186	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C188	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C191,192	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M

Ref. No.	Part No.	Part Name	Remarks
C218,219	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C220	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C232	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C237,238	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C241	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C247	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C251	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C253,254	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C260,261	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C270~276	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C283,284	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C285	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C287	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C291	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C293~296	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C615	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C617	254 4254 912	Electrolytic 22µF/16V	CE04W1C220M
C619	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C620	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C621~624	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C633,634	253 1180 921	Ceramic 1000 pF/50V	CK45B1H102K(DD-3)
C637	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C638,639.	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)

OTHER PARTS				Q'ty
CW051	205 0885 008	5P connector socket (TUC-P)		1
CW091	205 0885 037	9P connector socket (TUC-P)		1
CW111	205 0885 066	11P connector socket (TUC-P)		1
CW153	205 0885 040	15P connector socket (TUC-P)		1
CW156	205 0885 040	15P connector socket (TUC-P)		1
CW181	205 1056 030	18P connector socket (TKC-V)		1
CW963	205 0942 019	6P connector socket (TUC-P)		1
CX041	205 0884 083	4P connector base (TUC-P)		1
CX071	205 0943 021	7P connector base (TUC-P)		1
CX081	205 0343 087	8P connector base (KR-PH)		1
CX082	205 0884 096	8P connector base (TUC-P)		1
CX101,102	205 0884 054	10P connector base (TUC-P)		2
CX113,114	205 0884 067	11P connector base (TUC-P)		2
CX121,122	205 0884 070	12P connector base (TUC-P)		2
CX132	205 0943 005	13P connector base (TUC-P)		1
CX142	205 0884 012	14P connector base (TUC-P)		1
CX151	205 0884 041	15P connector base (TUC-P)		1
CX155~157	205 0884 041	15P connector base (TUC-P)		3
CX961~963	205 0943 018	6P connector base (TUC-P)		3

Ref. No.	Part No.	Part Name	Remarks	Q'ty
CY021	205 0581 001	2P VH connector base		1
CY033	205 0343 032	3P connector base (KR-PH)		1
FB101,102	235 0049 900	Beads inductor		2
FB120,121	235 0049 900	Beads inductor		2
FB122,123	235 0106 908	Chip emifil (21A05)		2
FB126	235 0106 908	Chip emifil (21A05)		1
FB127	235 0049 900	Beads inductor		1
FB502	235 0049 900	Beads inductor		1
JK501	204 8545 004	4P pin jack (GND)		1
JK502	204 8264 013	Headphones jack (NI)		1
⚠S501	212 1031 008	Power switch (TV-5)		1
T101,102	205 1034 010	M3 Screw terminal		2
W710	203 0525 029	1P SIN cord Ass'y	L=210,BLK	1
X103	399 0191 903	Ceramic 4.00 MHz	CST4.00MGW -TF01	1

1U-3108F POWER AMP. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC501	268 0073 905	IC ICP-N15	
IC502	263 0793 002	IC NJM7806FA(S)	
IC503	263 0801 004	IC NJM7812FA(S)	
IC504	263 0641 002	IC NJM7912FA	
IC505	263 0793 002	IC NJM7806FA(S)	
IC506,507	263 0809 006	IC NJM7805FA(S)	
TR507,508	273 0303 910	Transistor 2SC1740S(S)	
TR511,512	274 0151 929	Transistor 2SD2004(Q)	
TR513,514	272 0107 922	Transistor 2SB1328(Q)	
TR519,520	273 0235 923	Transistor 2SC1841(E/F)	
TR527,528	273 0303 910	Transistor 2SC1740S(S)	
TR531,532	274 0151 929	Transistor 2SD2004(Q)	
TR533,534	272 0107 922	Transistor 2SB1328(Q)	
TR539,540	273 0235 923	Transistor 2SC1841(E/F)	
TR544	273 0303 910	Transistor 2SC1740S(S)	
TR546	274 0151 929	Transistor 2SD2004(Q)	
TR547	272 0107 922	Transistor 2SB1328(Q)	
TR550	273 0235 923	Transistor 2SC1841(E/F)	
TR551	271 0131 924	Transistor 2SA988(E/F)	
TR552	273 0429 904	Transistor 2SC3311A	
TR554	273 0429 904	Transistor 2SC3311A	
TR555	271 0192 905	Transistor 2SA933S(S)	
TR556,557	273 0429 904	Transistor 2SC3311A	
TR558	271 0192 905	Transistor 2SA933S(S)	
TR559~565	273 0429 904	Transistor 2SC3311A	
TR566	271 0254 018	Transistor 2SA1725(O/P/Y)	
TR569	271 0254 018	Transistor 2SA1725(O/P/Y)	
D501~505	276 0401 905	Diode 1SS133	
D507~512	276 0553 905	Diode 1SR35-200A	
D513~517	276 0401 905	Diode 1SS133	
D518~520	276 0305 001	Diode S4VB20	
D521~523	276 0401 905	Diode 1SS133	
D524~527	276 0553 905	Diode 1SR35-200A	
ZD501	276 0644 911	Zener diode MTZJ7.5A	7.5V
SC501	279 0016 904	Thyristor SF0R1A42	
RESISTORS GROUP			
R525~528	244 2052 957	Metal oxide 5.6 kohm 1W	RS14B3A562JNBS(S)
R537,538	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBS
R539~542	241 2387 908	Carbon film 1 ohm 1/4W(NB)	RD14B2E010JNBS
R543~550	244 2043 982	Metal oxide 0.22 ohm 1W	RS14B3AR22JNBS(S)
R557,558	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R571	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R605~608	244 2052 957	Metal oxide 5.6 kohm 1W	RS14B3A562JNBS(S)

Ref. No.	Part No.	Part Name	Remarks
R619,620	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBS
R621~624	241 2387 908	Carbon film 1 ohm 1/4W(NB)	RD14B2E010JNBS
R625~632	244 2043 982	Metal oxide 0.22 ohm 1W	RS14B3AR22JNBS(S)
R639,640	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R672,673	244 2052 957	Metal oxide 5.6 kohm 1W	RS14B3A562JNBS(S)
R679	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBS
R680,681	241 2387 908	Carbon film 1 ohm 1/4W(NB)	RD14B2E010JNBS
R682~685	244 2043 982	Metal oxide 0.22 ohm 1W	RS14B3AR22JNBS(S)
R690	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R714,715	243 2039 032	Winding 0.1 ohm 5W	RW99=3H0R1K
R734	242 2009 001	Composition 2.2 Mohm 1/2W	RC05GF2H225K(UL)
R744,745	241 2376 919	Carbon film 30 ohm 1/4W(NB)	RD14B2E300JNBS
R757,758	244 2052 960	Metal oxide 220 ohm 1W	RS14B3A221JNBS(S)
VR501~505	211 6132 909	Semi fixed resistor 4.7 kohm	V06PB472
CAPACITORS GROUP			
C513,514	254 4261 918	Electrolytic 47µF/50V	CE04W1H470M
C515,516	254 4263 987	Electrolytic 10µF/100V	CE04W2A100M
C517~520	253 4494 902	Ceramic 100 pF/500V	CC45SL2H101J
C521,522	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C541,542	254 4261 918	Electrolytic 47µF/50V	CE04W1H470M
C543,544	253 4494 902	Ceramic 100 pF/500V	CC45SL2H101J
C545,546	254 4263 987	Electrolytic 10µF/100V	CE04W2A100M
C547,548	253 4494 902	Ceramic 100 pF/500V	CC45SL2H101J
C549,550	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C566	254 4261 918	Electrolytic 47µF/50V	CE04W1H470M
C567	254 4263 987	Electrolytic 10µF/100V	CE04W2A100M
C568,569	253 4494 902	Ceramic 100 pF/500V	CC45SL2H101J
C570	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C573	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C581	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C582	253 9039 906	Ceramic 0.1µF/25V	CK45=1E104Z(DD-3)
C583	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C584	253 9039 906	Ceramic 0.1µF/25V	CK45=1E104Z(DD-3)
C585	254 4250 945	Electrolytic 330µF/6.3V	CE04W0J331M
C586	253 9039 906	Ceramic 0.1µF/25V	CK45=1E104Z(DD-3)
C587	254 4250 945	Electrolytic 330µF/6.3V	CE04W0J331M
C589	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C590	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C594	254 4403 721	Electrolytic 2200µF/25V	CE04W1E222MC (SMG)
C595	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C599	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C601	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C602	254 6213 702	Electrolytic 10000µF/56V	CE68W==103MC(DL)
C605	254 6213 702	Electrolytic 10000µF/56V	CE68W==103MC(DL)
C606~608	256 1042 903	Metalized 0.1µF/250V	CF93A2E104K
C609~612	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)

Ref. No.	Part No.	Part Name	Remarks
C635	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C639,640	254 4256 936	Electrolytic 47µF/25V	CE04W1E470M
C641	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C642	254 4403 705	Electrolytic 6800µF/25V	CE04W1E682MC(SMG)
C643	254 4403 718	Electrolytic 1000µF/25V	CE04W1E102MC (SMG)
C644,645	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C646	254 4262 784	Electrolytic 470µF/63V	CE04W1J471MC
C647	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C648	253 8014 702	Ceramic 0.01µF/400V(AC)	CK45F2GAC103MC
C660	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C665	254 4406 702	Electrolytic 3300µF/16V	CE04W1C332MC(SMG)
C666	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C668	254 4260 906	Electrolytic 0.1µF/50V	CE04W1H0R1M
C670	254 4256 936	Electrolytic 47µF/25V	CE04W1E470M
C672	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M

OTHER PARTS				Q'ty
⚠AC501	203 3976 002	AC outlet (2P)		1
CW155	205 0885 040	15P connector socket (TUC-P)		1
CX021	205 0581 001	2P VH connector base		1
CX022	205 0606 025	2P wrapping terminal		1
CX024	205 0606 025	2P wrapping terminal		1
CX033	205 0343 032	3P connector base (KR-PH)		1
CX051~055	205 0884 009	5P connector base (TUC-P)		5
CX057	205 0233 058	5P EH connector base		1
CX061~069	205 1082 062	6P pin header (6035) V		9
CX091	205 0884 038	9P connector base (TUC-P)		1
CX111,112	205 0884 067	11P connector base (TUC-P)		2
CX153,154	205 0884 041	15P connector base (TUC-P)		2
CX960	205 1082 062	6P pin header (6035) V		1
CY032	205 0087 039	3P wrapping terminal		1
⚠F1	206 1046 001	Fuse 6.3A UL 20mm		1
⚠F8	206 1046 014	Fuse 8A		1
⚠F11~13	206 1039 076	Fuse 2.5A		3
FH501~505	202 0040 909	Fuse clip		10
L501~505	235 0068 004	Inductor 1µH		5
RL501	214 0127 003	Relay (RY-12W)		1
RL502~504	214 0195 006	Relay FTR-F1		3
RL505	214 0188 000	Relay VS-12MBNR-SM2(TV-8)		1
⚠T501	233 6073 000	Power trans. (Mini)-EU		1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
TH501	279 0034 067	Posistor PTH9M04BB222TS2F333		1
TM501,502	205 0472 013	8P SP terminal (EAEK)		2
TP501~505	205 0190 036	3P NH connector base		5
	415 0309 026	P.V.C. tube (L=20)	for TH501	2

1U-3109F AUDIO IN DSP UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC601	263 0896 909	IC NJM2068MD	
IC603	262 2034 009	IC TC9273N-007	
IC606	263 0896 909	IC NJM2068MD	
IC701	262 2490 902	IC PCM1716E	DAC
IC702,703	263 0896 909	IC NJM2068MD	
IC731	263 0615 902	IC BA15218F	
IC751	262 2490 902	IC PCM1716E	DAC
IC752,753	263 0896 909	IC NJM2068MD	
IC801	262 2490 902	IC PCM1716E	DAC
IC802~804	263 0896 909	IC NJM2068MD	
IC851,852	263 0934 900	IC BA4510F	
IC854	262 2426 905	IC AK5351-VF	
IC855	399 0515 000	Crystal 12.288 MHz	SG-8002DCPT(12.288M)
IC900	263 1048 002	IC BA033T	
IC901	262 2370 103	IC ZR38600 (B6)	
IC902	262 2376 903	IC TC74HCT7007AF	
IC903	262 2489 007	IC TMP87CM43N-****	SUB-UCON
IC904	262 2575 908	IC SN74HC00NS	
IC905	262 1348 903	IC TC74HC123AF	
IC906	262 2385 907	IC SN74HC14NS	
IC907	262 1348 903	IC TC74HC123AF	
IC908	262 2284 901	IC TC74HCT157AF	
IC909	262 2576 907	IC SN74HC74NS	
IC910	262 2577 906	IC SN74HC157NS	
IC911	262 2491 901	IC CS8414-CS	DIR
TR703,704	273 0414 906	Transistor 2SC3326(A/B)	
TR707	269 0083 901	Transistor DTA114EK	
TR731	275 0094 908	FET 2SK209-GR	
TR732	269 0055 900	Transistor DTA144EK	
TR733	269 0054 901	Transistor DTC144EK	
TR753,754	273 0414 906	Transistor 2SC3326(A/B)	
TR757	269 0083 901	Transistor DTA114EK	
TR803,804	273 0414 906	Transistor 2SC3326(A/B)	
TR807	269 0083 901	Transistor DTA114EK	
TR852	269 0083 901	Transistor DTA114EK	
TR901,902	269 0082 902	Transistor DTC114EK	
TR903,904	269 0054 901	Transistor DTC144EK	
D731	276 0559 909	Diode DAP202K	
D856,857	276 0560 901	Diode DAN202K	
D859	276 0560 901	Diode DAN202K	
D901,902	276 0559 909	Diode DAP202K	

Ref. No.	Part No.	Part Name	Remarks
RESISTORS GROUP			
R519~522	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B–471J
R523~526	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B–275J
R601,602	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R603,604	247 0006 946	Carbon chip 390 ohm 1/10W	RM73B–391J
R605,606	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B–683J
R607,608	247 0012 969	Carbon chip 150 kohm 1/10W	RM73B–154J
R609,610	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B–470J
R611,612	247 0005 992	Carbon chip 240 ohm 1/10W	RM73B–241J
R613,614	247 0012 956	Carbon chip 130 kohm 1/10W	RM73B–134J
R615,616	247 0009 998	Carbon chip 11 kohm 1/10W	RM73B–113J
R617,618	247 0003 949	Carbon chip 22 ohm 1/10W	RM73B–220J
R619,620	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R621,622	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R625~634	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B–275J
R635~644	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B–471J
R663,664	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B–471J
R665,666	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B–275J
R667,668	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R671~674	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R677,678	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R679,680	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R683,684	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R685,686	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R691,692	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R701~708	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R709,710	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R711	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B–102J
R712	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B–471J
R713,714	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R715,716	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B–221J
R717~720	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B–201J
R723,724	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B–332J
R725,726	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R727~730	247 0009 943	Carbon chip 6.8 kohm 1/10W	RM73B–682J
R735,736	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R737,738	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R741~743	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R744,745	247 0010 974	Carbon chip 24 kohm 1/10W	RM73B–243J
R746	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R747	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R748	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R751	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R752	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R753	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R754	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R755~758	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R759,760	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R761	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B–102J
R762	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B–471J

Ref. No.	Part No.	Part Name	Remarks
R763,764	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R765,766	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B–221J
R767~770	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B–201J
R770	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B–201J
R773,774	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B–332J
R775,776	247 0010 932	Carbon chip 16 kohm 1/10W	RM73B–163J
R777,778	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R781	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R782	247 0009 914	Carbon chip 5.1 kohm 1/10W	RM73B–512J
R784	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R785,786	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R787,788	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R789,790	247 0007 990	Carbon chip 1.6 kohm 1/10W	RM73B–162J
R801~808	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R809,810	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R811	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B–102J
R812	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B–471J
R813,814	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R815,816	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B–221J
R817~820	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B–201J
R823,824	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B–332J
R825,826	247 0010 932	Carbon chip 16 kohm 1/10W	RM73B–163J
R827,828	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R831,832	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R835,836	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R837,838	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R839,840	247 0007 990	Carbon chip 1.6 kohm 1/10W	RM73B–162J
R851~854	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R855,856	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R857~860	247 0009 998	Carbon chip 11 kohm 1/10W	RM73B–113J
R861~864	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R865~868	247 0006 920	Carbon chip 330 ohm 1/10W	RM73B–331J
R873	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R874,875	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R878~880	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R882	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R883,884	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R885~887	247 0010 916	Carbon chip 13 kohm 1/10W	RM73B–133J
R889	247 0010 916	Carbon chip 13 kohm 1/10W	RM73B–133J
R892,893	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R894,895	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B–101J
R896,897	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R899	247 0012 969	Carbon chip 150 kohm 1/10W	RM73B–154J
R900	247 0012 969	Carbon chip 150 kohm 1/10W	RM73B–154J
R901	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R902	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B–470J
R904,905	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B–470J
R906,907	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R908	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R909,910	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K

Ref. No.	Part No.	Part Name	Remarks
R914,915	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R916,917	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B–104J
R918	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R920	247 0014 967	Carbon chip 1 Mohm 1/10W	RM73B–105J
R921	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B–333J
R922	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R929	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R931~933	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B–470J
R934	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R935	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B–470J
R936	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R937,938	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B–470J
R939~942	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R943	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B–102J
R944	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B–0R0K
R951	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B–472J
R952	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R953~955	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B–470J
R956~958	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B–473J
R964	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B–103J
R985,986	247 0010 916	Carbon chip 13 kohm 1/10W	RM73B–133J
CAPACITORS GROUP			
C601,602	257 0005 944	Ceramic chip 220 pF/50V	CC73SL1H221J
C603,604	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C605,606	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C607,608	254 4250 932	Electrolytic 220µF/6.3V	CE04W0J221M
C609,610	255 4199 999	Mylar film 0.024µF/50V	CQ92M1H243J(MRZ)
C611,612	255 1265 907	Mylar film 6800 pF/50V	CQ93M1H682J(B)
C613,614	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C615,616	257 0012 982	Ceramic chip 0.022µF/50V	CK73F1H223Z
C649	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C651	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C655,656	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C657,658	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C671,672	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C701~704	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C705~708	257 0006 969	Ceramic chip 680 pF/50V	CC73SL1H681J
C711,712	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C713,714	255 1265 952	Mylar film 0.015µF/50V	CQ93M1H153J(B)
C715,716	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C717,718	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C721,722	257 0003 988	Ceramic chip 47 pF/50V	CC73SL1H470J
C733	256 1058 942	Metalized 0.056µF/50V	CF93A1H563J (JL)
C734	256 1058 984	Metalized 0.12µF/50V	CF93A1H124J (JL)
C737	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C742	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C743,744	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C745~747	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C751~754	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M

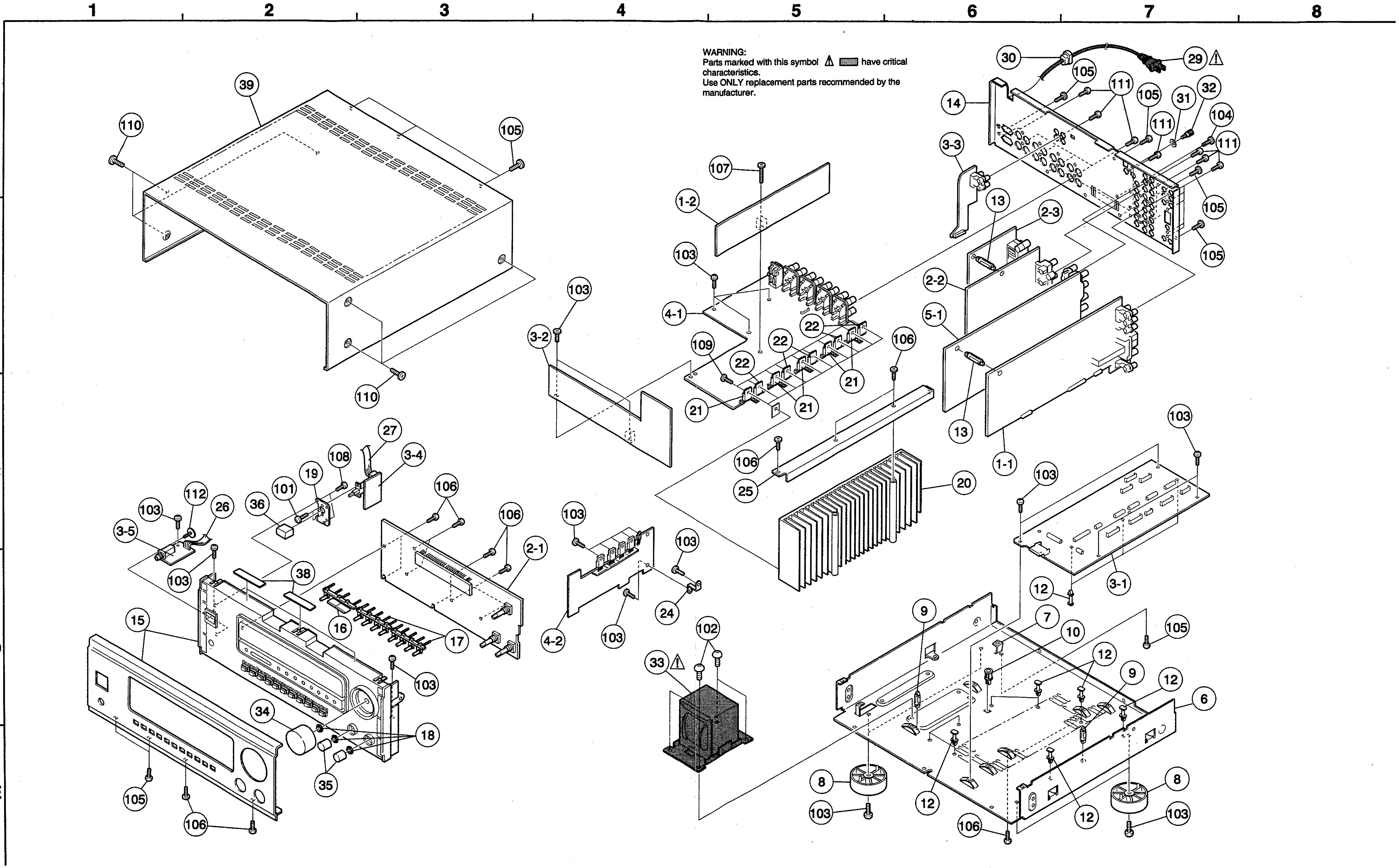
Ref. No.	Part No.	Part Name	Remarks
C755	257 0006 969	Ceramic chip 680 pF/50V	CC73SL1H681J
C756	257 0011 983	Ceramic chip 0.047µF/25V	CK73B1E473K
C757	257 0006 969	Ceramic chip 680 pF/50V	CC73SL1H681J
C758	257 0011 967	Ceramic chip 0.033µF/25V	CK73B1E333K
C761,762	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C763,764	255 1265 952	Mylar film 0.015µF/50V	CQ93M1H153J(B)
C765~768	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C775	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C776	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C792	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C793,794	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C795~797	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C801~804	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C805~908	257 0006 969	Ceramic chip 680 pF/50V	CC73SL1H681J
C811,812	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C813,814	255 1265 952	Mylar film 0.015µF/50V	CQ93M1H153J(B)
C815~818	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C821~824	256 1059 912	Metalized 0.22µF/50V	CF93A1H224J (JL)
C825,826	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C827,828	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C835,836	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C842	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C843,844	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C845~847	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C851,852	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C853,854	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C855,856	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C857,858	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C859,860	255 1264 924	Mylar film 1500 pF/50V	CQ93M1H152J(B)
C865	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C866	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C867	254 4254 941	Electrolytic 100µF/16V	CE04W1C101M
C888~890	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C893	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C894	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C895,896	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C897,898	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C899	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C901,902	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C903	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C905	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C906	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C907	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C908	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C909	257 0007 900	Ceramic chip 1000 pF/50V	CC73SL1H102J
C913	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C914	257 0007 900	Ceramic chip 1000 pF/50V	CC73SL1H102J
C915	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C916	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C917	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z

Ref. No.	Part No.	Part Name	Remarks
C918	257 0011 983	Ceramic chip 0.047µF/25V	CK73B1E473K
C919	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C920	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C921	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C922	257 0007 900	Ceramic chip 1000 pF/50V	CC73SL1H102J
C923	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C927	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C928,929	257 0004 903	Ceramic chip 56 pF/50V	CC73SL1H560J
C930	257 0005 944	Ceramic chip 220 pF/50V	CC73SL1H221J
C931	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C932	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C934	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C936	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C937,938	254 4260 935	Electrolytic 0.47µF/50V	CE04W1HR47M
C940,941	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C942	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C943	257 0005 986	Ceramic chip 330 pF/50V	CC73SL1H331J
C947	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M
C948	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C949	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C950	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C951	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C952	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C953	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C954~958	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C959	256 1058 939	Metalized 0.047µF/50V	CF93A1H473J (JL)
C960	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C961~964	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C995	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C997~999	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)

OTHER PARTS				Q'ty
CW041	205 0885 082	4P connector socket (TUC-P)		1
CW071	205 0942 022	7P connector socket (TUC-P)		1
CW102	205 0885 053	10P connector socket (TUC-P)		1
CW114	205 0885 066	11P connector socket (TUC-P)		1
CW151	205 0885 040	15P connector socket (TUC-P)		1
CW157	205 0885 040	15P connector socket (TUC-P)		1
CX103	205 0375 000	10P connector base (KR-PH)		1
FB701~709	235 0049 900	Beads inductor		9
FB851~854	235 0049 900	Beads inductor		4
FB901~911	235 0106 908	Chip emifil (21A05)		11
FB913~917	235 0106 908	Chip emifil (21A05)		5
FB918,919	235 0049 900	Beads inductor		2
FB923~928	235 0049 900	Beads inductor		6
FB929	235 0106 908	Chip emifil (21A05)		1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
FB930	235 0049 900	Beads inductor		1
FB931~933	235 0106 908	Chip emifil (21A05)		3
FB934	235 0049 900	Beads inductor		4
FB935~940	235 0106 908	Chip emifil (21A05)		6
FB941	235 0049 900	Beads inductor		1
FB942,943	235 0106 908	Chip emifil (21A05)		2
FB945,946	235 0106 908	Chip emifil (21A05)		2
JK501	204 8543 006	6P pin jack		1
JK601,602	204 8543 006	6P pin jack		2
X901	399 0191 903	Ceramic 4.00 MHz	CST4.00MGW -TF01	1

EXPLODED VIEW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WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

PARTS LIST OF EXPLODED VIEW

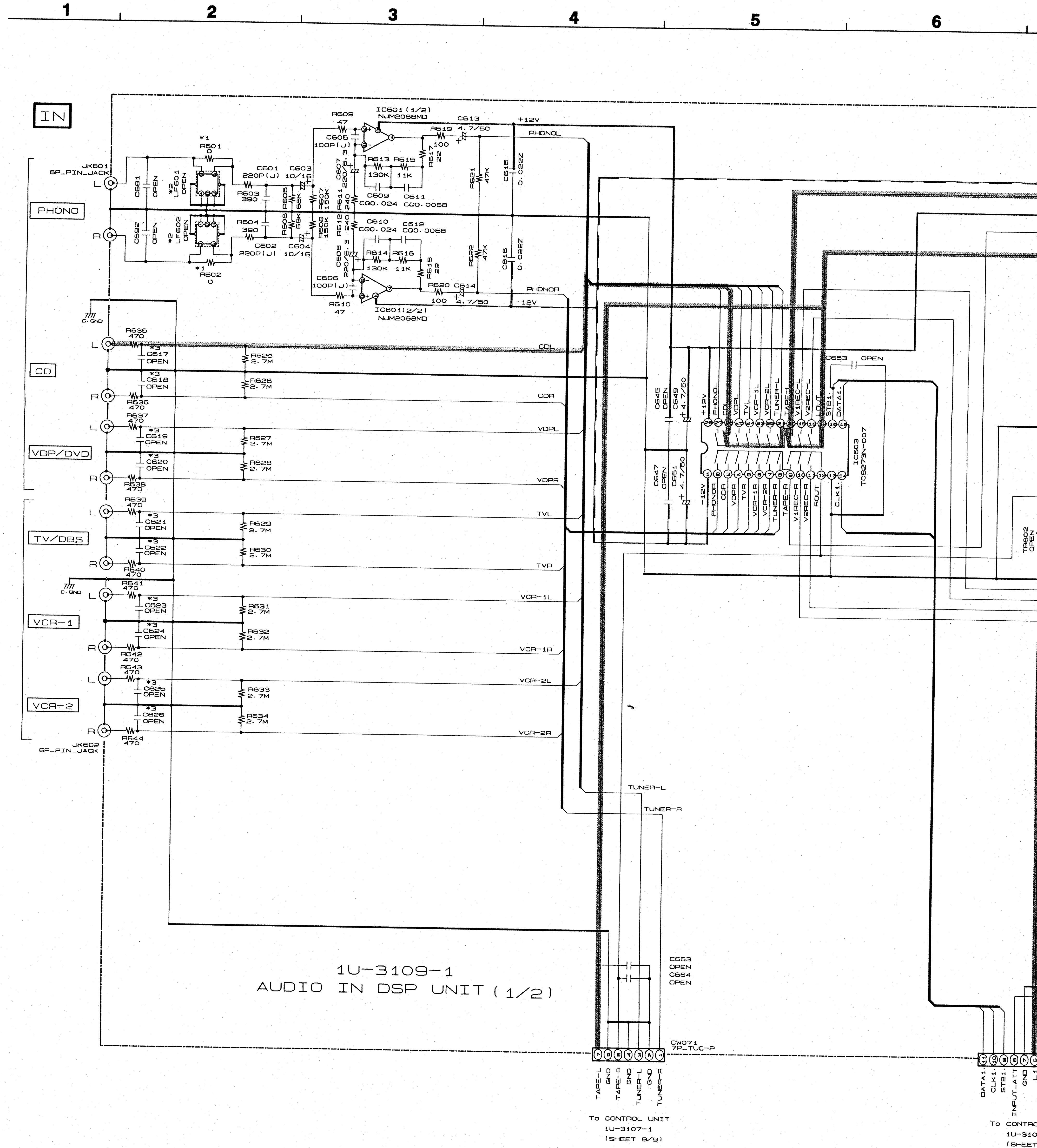
Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	1U-3105F	Tuner amp. unit ass'y		1
1-1	1U-3105F-1	Tuner VR unit		
1-2	1U-3105F-2	Amp. unit		
2	1U-3106F	Display video unit ass'y		1
2-1	1U-3106F-1	Display unit		
2-2	1U-3106F-2	C - video unit		
2-3	1U-3106F-3	Digital in unit		
3	1U-3107F	Control unit ass'y		1
3-1	1U-3107F-1	Control unit		
3-2	1U-3107F-2	Connect unit		
3-3	1U-3107F-3	Preout unit		
3-4	1U-3107F-4	Power switch unit		
3-5	1U-3107F-5	Headphones unit		
4	1U-3108F	Power amp. unit ass'y		1
4-1	1U-3108F-1	Power amp. unit		
4-2	1U-3108F-2	Regulator unit		
5	1U-3109F	Audio in DSP unit ass'y		1
5-1	1U-3109F-1	Audio in DSP unit		
6	411 1372 416	Main chassis		1
7	412 4210 002	Bracket		1
8	104 0194 205	Foot ass'y		4
9	449 0133 017	PWB holder		2
10	412 3548 005	P.W.B. catcher		1
12	412 2814 028	Card spacer (L=10)		11
13	449 0133 004	PWB holder		2
14	105 1302 002	Back panel		1
15	146 2065 077	Inner panel ass'y		1
16	113 1804 006	Tuning knob		1
17	113 1805 005	Function knob		2
18	—	9 nut		
19	412 4163 007	Switch bracket		1
20	417 0569 008	Power radiator		1
21	273 0389 031	Transistor 2SC3855 LB(O/P/Y)(Z)		5
22	271 0240 035	Transistor 2SA1491 LB(O/P/Y)(Z)		5
24	412 4127 001	P.W.B. bracket (B)		1
25	412 4296 000	Radiator bracket		1
26	203 4871 067	3P KR-KR ribbon 175	CN033	1
27	203 2374 029	2P VA-VA cord	CN021	1
28	445 8004 007	Wire clamper		2
⚠ 29	206 2161 008	AC cord sol. N/I E3		1
30	445 0056 008	Cord bush		1
31	477 0018 014	Washer (P-87) D10		1
32	205 0071 016	Terminal ass'y		1
⚠ 33	233 6284 006	Power trans. (EU/EC)		1
34	112 0744 164	VR. knob ass'y		1
35	112 0685 100	Knob (MARU)		2
36	113 9213 000	P. knob (P) ass'y		1
37	513 3156 004	Caution label		1
38	461 0976 012	Rubber sheet		3
39	102 0598 009	Top cover		1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
SCREWS				
101	471 3303 016	Screw 3x6 CBS-Z		2
102	473 7004 016	Screw 4x6 CBTS (S)-Z		4
103	473 7005 002	Screw 3x10 CBTS(S)-Z		22
104	473 7006 043	Screw 3x14 CBTS (S)-B		1
105	473 7015 018	Screw 3x8 CBTS(S)-B		13
106	473 7501 001	Screw 3x10 CBTS (P)-Z		14
107	473 7501 030	Screw 3x20 CBTS (P)-Z		1
108	473 7505 007	Screw 2.6x8 CBTS(P)-Z		2
109	473 8007 009	Cup screw 3x12		10
110	473 8064 000	Screw 4x8 CBTS(B)-B-3P		6
111	477 0064 107	Fixing screw		20
112	477 0262 006	Special screw		1
PACKING & ACCESSORIES				
201	504 9102 029	Stylen paper		1
202	505 9102 019	Poly. cover		1
203	503 1307 007	Cushion ass'y		1
204	505 8006 019	Envelope		1
205	511 3355 003	Instruction manual		1
206	231 0922 009	Loop antenna		1
207	395 0023 008	FM antenna ass'y		1
208	399 0509 003	RC-855 remocon unit		1
209	515 0671 601	Service station list (EX)		1
210	529 0079 008	FM ant. adapter		1
211	501 2027 018	Carton case		1
212	513 1389 006	Control card base		1
213	513 1349 004	Thermal carbon film		1
214	515 0817 009	DEL warranty home		1
215	517 1382 005	UPC label		1

PARTS LIST OF REMOTE CONTROL UNIT (RC-855)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
◉ 1	—	Top Case (RC855) Ass'y		1s
◉ 2	9H3 1000 168	Cover		1
◉ 3	—	Switch Rubber		1
◉ 4	9H3 1000 166	Bottom Case		1
◉ 5	9H3 1000 167	Battery Cover		1
◉ 6	9H3 1000 148	Filter		1
7	9H3 1000 150	Slide Knob		2
8	9H3 1000 152	Coil Spring		1
12	9H3 1000 185	Tapping Screw 2x5		1
13	9H3 1000 107	Tapping Screw 2x5		1
14	9H3 1000 195	Main P.W.B. Ass'y		
IC1	9H3 1000 194	IC µPD17204GC-568	µ-Com	1
IC2	9H3 1000 158	IC RH5VA10AA	vol.Detector	1
Q1	9H3 1000 070	Transistor 2SC2982	Chip	1
D1,2	9H3 1000 028	LED TLR124	Visible-Red	2
D4	9H3 1000 131	LED SE1003-C	Inflared	1
D5	9H3 1000 087	Diode 1SS281		1
D6	9H3 1000 029	Diode PH310	Photo-PIN	1
D7	9H3 1000 071	Diode DA119	Chip	1
X1	9H3 1000 088	Ceramic Resonator	KBR4.0M503	1
SW1	9H3 1000 089	Slide Switch		1
SW2	9H3 1000 074	Slide Switch		1
C1	254 4213 034	Electrolytic 100µF/6.3V	CE04W0J101M	1
C3	254 4213 021	Electrolytic 47µF/6.3V	CE04W0J470M	1

SCHEMATIC DIAGRAM (1/9)


1
2
3
4
5
6
IN
PHONO
CD
VDP/DVD
TV/DBS
VCR-1
VCR-2
JK601
6P_PIN_JACK
JK602
6P_PIN_JACK
C.GND
IC601(1/2)
NJM2068MD
IC601(2/2)
NJM2068MD
IC603
TC9273N-007
+12V
-12V
PHONOL
PHONOR
CDL
CDR
VDPL
VDPR
TVL
TVR
VCR-1L
VCR-1R
VCR-2L
VCR-2R
TUNER-L
TUNER-R
TAPE-L
TAPE-R
V1REC-L
V1REC-R
V2REC-L
V2REC-R
LOUT
ROUT
STB1.
DATA1.
CLK1.
C663 OPEN
C664 OPEN
C653 OPEN
C645 OPEN
C647 OPEN
C649 4.7/50
C651 4.7/50
CW071
7P_TUC-P
GND
INPUT_ATT
TR602 OPEN
1U-3109-1
AUDIO IN DSP UNIT (1/2)
To CONTROL UNIT
1U-3107-1
(SHEET 9/9)
To CONTRO
1U-310
(SHEET

	*1 R601.602	*2 LF601.602	*3 C617~626	*4 C609~612 C661.662
USA TAIWAN R.O.C. JAPAN	0	—	—	—
ASIA EUROPE	1.3K	L.P.F	330p	100P

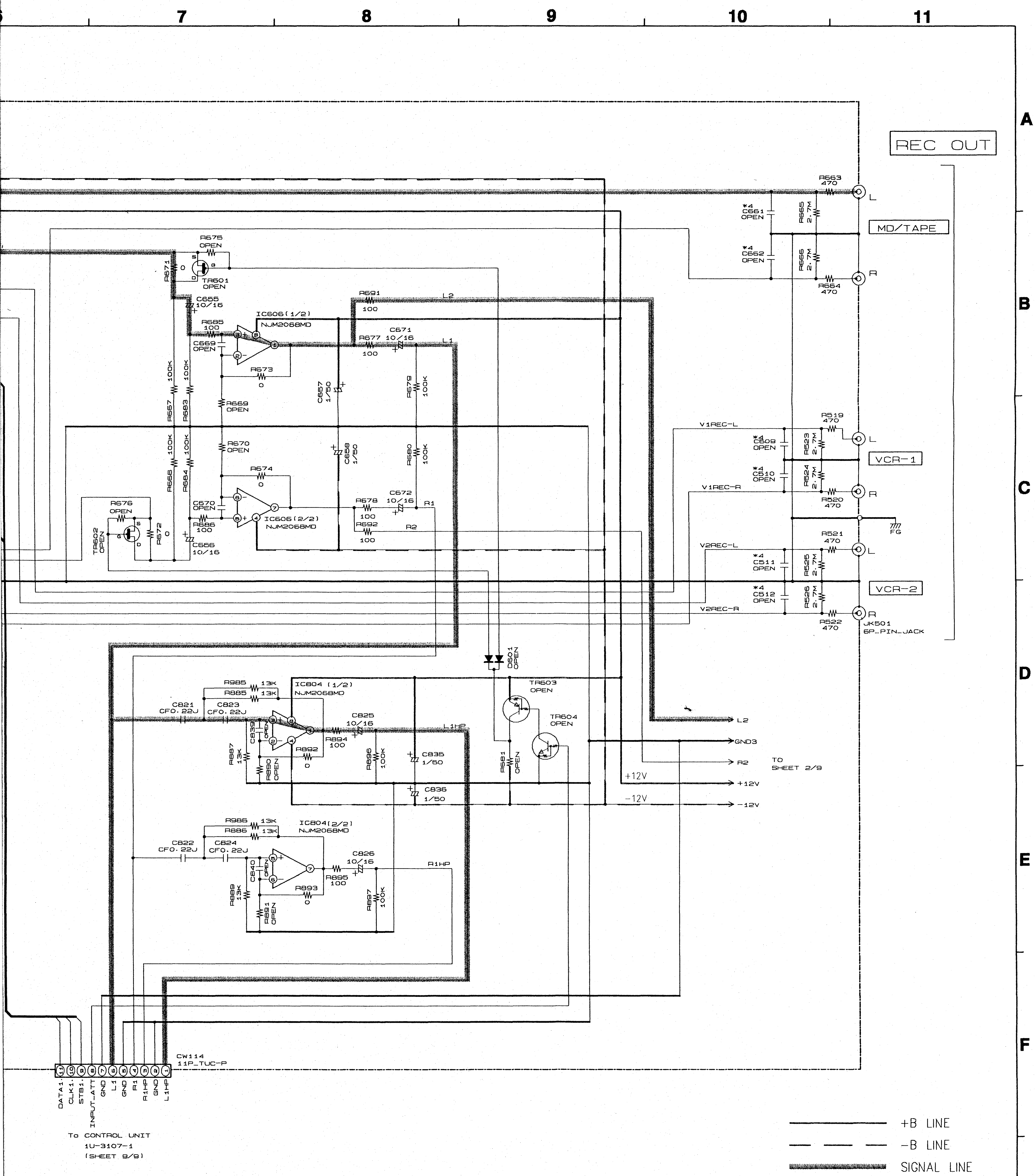
NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-M

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SI CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT NOTICE.


7
8
9
10
11
A
B
C
D
E
F
G
H
REC OUT
MD/TAPE
VCR-1
VCR-2
L
R
JK501
6P_PIN_JACK
FG
R663 470
R664 470
R665 2.7M
R666 2.7M
*4 C661 OPEN
*4 C662 OPEN
R519 470
R520 470
R521 470
R522 470
R523 2.7M
R524 2.7M
R525 2.7M
R526 2.7M
*4 C509 OPEN
*4 C510 OPEN
*4 C511 OPEN
*4 C512 OPEN
V1REC-L
V1REC-R
V2REC-L
V2REC-R
R675 OPEN
R671 0
TR601 OPEN
C655 10/16
R685 100
C669 OPEN
IC606(1/2) NJM2068MD
R673 0
R691 100
R677 100
C671 10/16
L1
L2
C657 1/50
C658 1/50
R679 100K
R680 100K
R657 100K
R683 100K
R668 100K
R684 100K
R669 OPEN
R670 OPEN
R674 0
C570 OPEN
R686 100
C656 10/16
IC606(2/2) NJM2068MD
R678 100
R692 100
C672 10/16
R1
R2
R676 OPEN
TR602 OPEN
R672 0
D601 OPEN
TR603 OPEN
TR604 OPEN
R681 OPEN
R985 13K
R885 13K
IC804(1/2) NJM2068MD
C821 CF0.22J
C823 CF0.22J
C839 OPEN
C825 10/16
R894 100
R892 0
R887 13K
R890 OPEN
R896 100K
C835 1/50
C836 1/50
L1HP
R986 13K
R886 13K
IC804(2/2) NJM2068MD
C822 CF0.22J
C824 CF0.22J
C840 OPEN
C826 10/16
R895 100
R893 0
R889 13K
R891 OPEN
R897 100K
R1HP
+12V
-12V
L2
GND3
R2
+12V
-12V
TO SHEET 2/9
CW114 11P_TUC-P
DATA1
CLK1
STB1
INPUT_ATT
GND
L1
GND
R1
R1HP
GND
L1HP
To CONTROL UNIT 1U-3107-1 (SHEET 9/9)
+B LINE
-B LINE
SIGNAL LINE

.. k=1,000 OHM M=1,000,000 OHM
CRO FARAD. P=MICRO-MICRO FARAD
RE MEASURED AT NO SIGNAL INPUT

CT TO CHANGE WITHOUT PRIOR

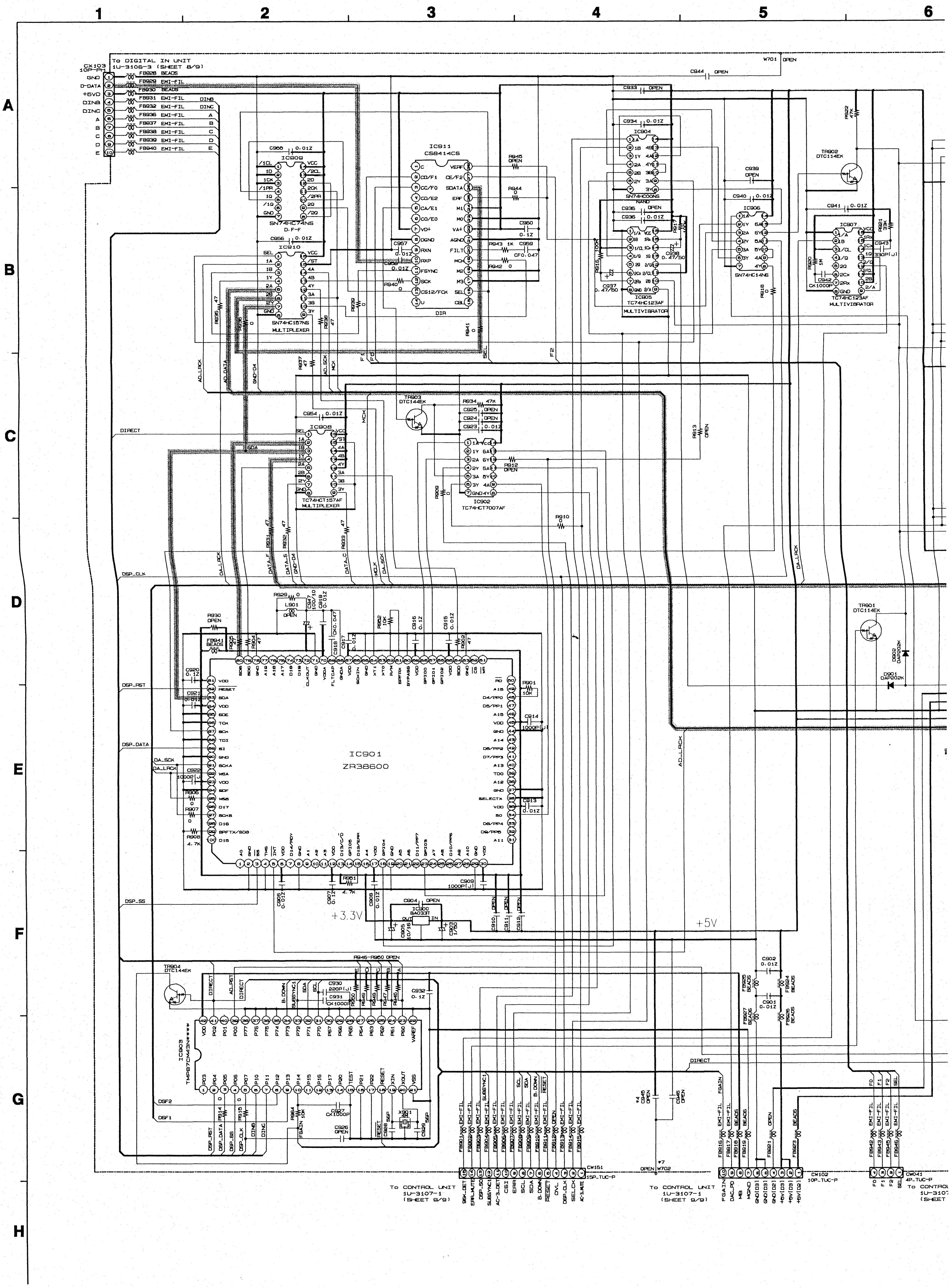
WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

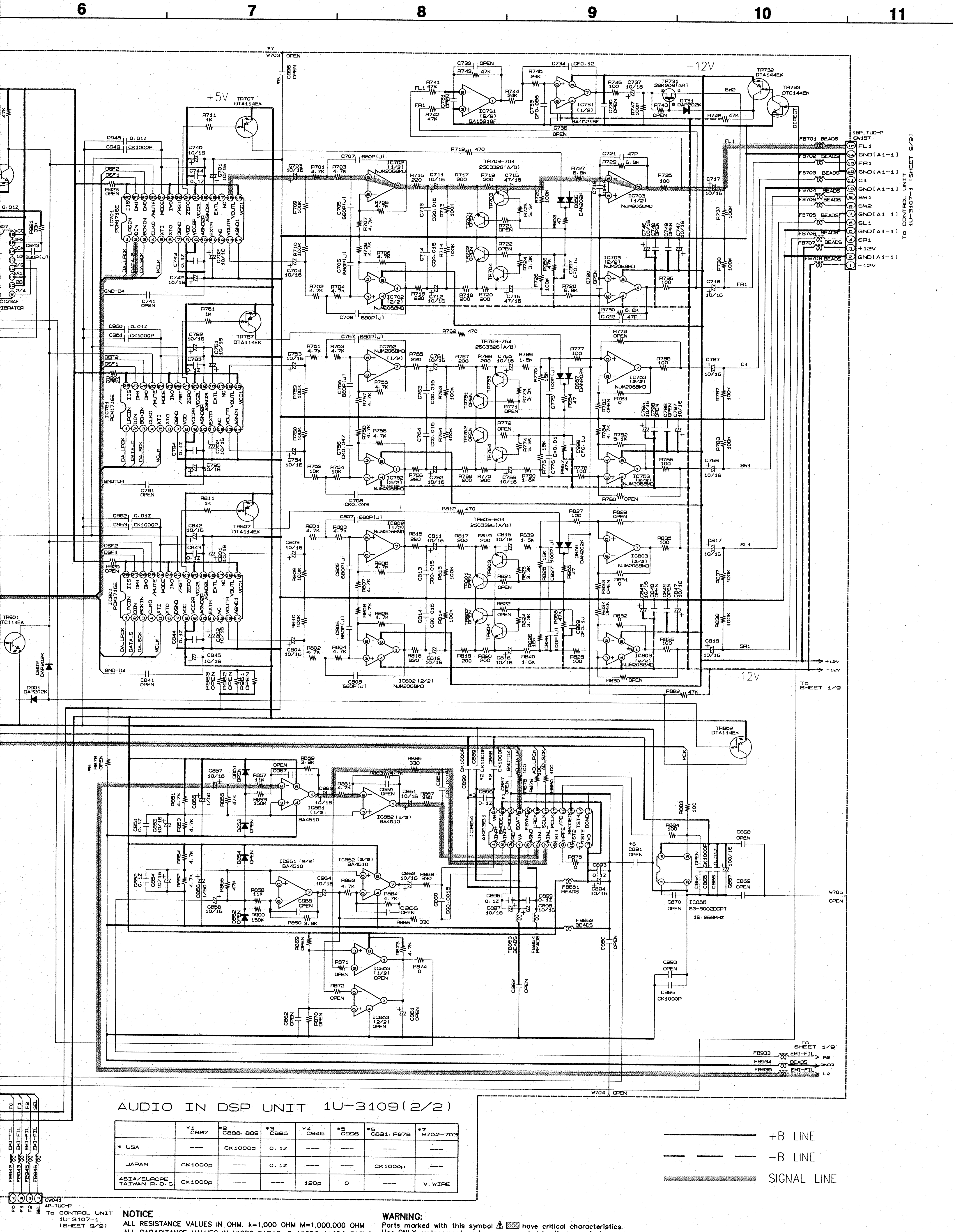
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAM (1/9)

SCHEMATIC DIAGRAM (2/9)


1
2
3
4
5
6
A
B
C
D
E
F
G
H
CX103 10P-PH
To DIGITAL IN UNIT 1U-3106-3 (SHEET 8/9)
GND
D-DATA
+5VD
DINB
DINC
A
B
C
D
E
FB928 BEADS
FB929 EMI-FIL
FB930 BEADS
FB931 EMI-FIL
FB932 EMI-FIL
FB936 EMI-FIL
FB937 EMI-FIL
FB938 EMI-FIL
FB939 EMI-FIL
FB940 EMI-FIL
IC909 SN74HC74NS D-F-F
IC910 SN74HC157NS MULTIPLEXER
IC911 CS8414CS DIR
IC904 SN74HC00NS NAND
IC905 TC74HC123AF MULTIVIBRATOR
IC906 SN74HC14NS
IC907 TC74HC123AF MULTIVIBRATOR
TR902 DTC114EK
TR903 DTC144EK
IC908 TC74HCT157AF MULTIPLEXER
IC902 TC74HCT7007AF
TR901 DTC114EK
D902 DAP202K
D901 DAP202K
IC901 ZR38600
IC900 BA033T
+3.3V
+5V
TR904 DTC144EK
IC903 TMP87CM43N****
AD_LRCK
AD_DATA
AD_SCK
GND-D4
MCK
F1
F0
F2
SEL
DIRECT
DSP_CLK
DSP_RST
DSP_DATA
DSP_SS
DA_SCK
DA_LRCK
DATA_F
DATA_S
DATA_C
W701 OPEN
W702
CW151 15P-TUC-P
To CONTROL UNIT 1U-3107-1 (SHEET 9/9)
96K_DET
ERR_MUTE
DSP_SO
SUBSYNC1
AC-3_DET
CSI
ERR
SCL
SDA
B.DOWN
RESET
OVL
DSP_CLK
SELCK
AC-3_MUTE
CW102 10P-TUC-P
FGAIN
DAC_PD
MB
MGND
GND(D3)
GND(D3)
GND(D2)
+5V(D3)
+5V(D3)
+5V(D2)
CW041 4P-TUC-P
F0
F1
F2
SEL


6
7
8
9
10
11
+5V
-12V
IC701 PCM1716E
IC751 PCM1716E
IC801 PCM1716E
IC702 NJM2068MD
IC703 NJM2068MD
IC752 NJM2068MD
IC753 NJM2068MD
IC802 NJM2068MD
IC803 NJM2068MD
IC731 BA15218F
TR703-704 2SC3326(A/B)
TR753-754 2SC3326(A/B)
TR803-804 2SC3326(A/B)
TR707 DTA114EK
TR757 DTA114EK
TR807 DTA114EK
TR731 2SK209(GR)
TR732 DTA144EK
TR733 DTC144EK
TR882 DTA114EK
TR901 DTC114EK
D731 DAP202K
D901 DAP202K
D902 DAP202K
IC851 BA4510
IC852 BA4510
IC853
IC854 AK5351
IC855 SG-8002DCPT 12.288MHz
15P_TUC-P CW157
FL1
GND(A1-1)
FR1
C1
SW1
SW2
SL1
SR1
+12V
-12V
To CONTROL UNIT 1U-3107-1 (SHEET 9/9)
To SHEET 1/9
DIRECT
MCK
CW041 4P_TUC-P
F0
F1
F2
SEL
To CONTROL UNIT 1U-3107-1 (SHEET 9/9)
+B LINE
-B LINE
SIGNAL LINE

AUDIO IN DSP UNIT 1U-3109(2/2)

	*1 C887	*2 C888, 889	*3 C895	*4 C945	*5 C996	*6 C891, R876	*7 W702-703
* USA	---	CK1000p	0.1Z	---	---	---	---
JAPAN	CK1000p	---	0.1Z	---	---	CK1000p	---
ASIA/EUROPE TAIWAN R.O.C.	CK1000p	---	---	120p	0	---	V.WIRE

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

Parts marked with this symbol ⚠ ▨ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

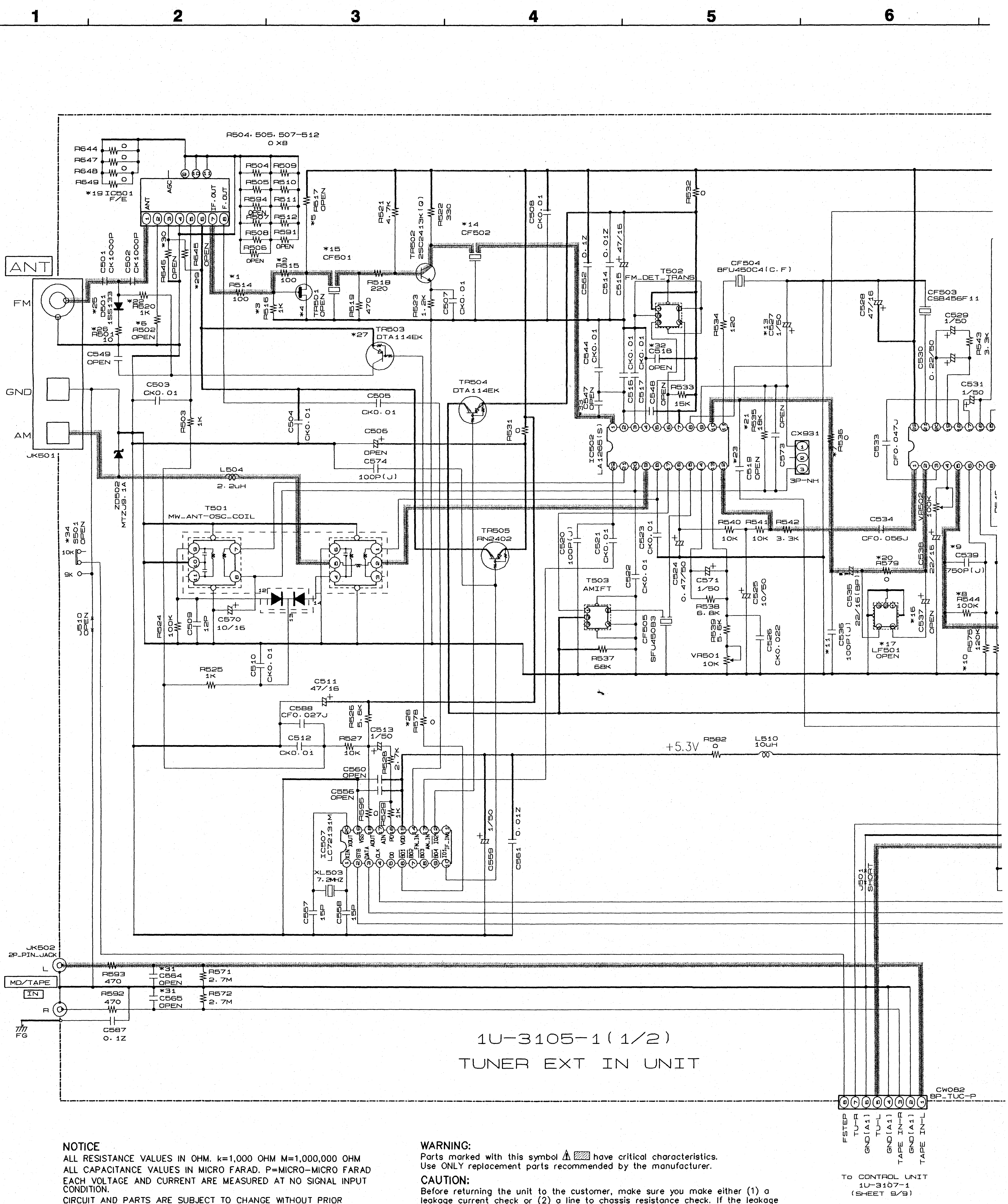
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAM (2/9)

SCHEMATIC DIAGRAM (3/9)


1
2
3
4
5
6
ANT
FM
GND
AM
JK501
R644
R647
R648
R649
*19 IC501 F/E
ANT
AGC
IF. OUT
F. OUT
R504. 505. 507-512 0 x8
R504
R509
R505
R510
R594
R511
R507
R512
R508
R591
R506 OPEN
*5 R517 OPEN
C501 CK1000P
C502 CK1000P
*25 D501 1SS133
*26 R501 10
*6 R502 OPEN
R520 1K
C549 OPEN
*30 R646 OPEN
*29 R545 OPEN
*1 R514 100
*2 R515 100
*3 R516 1K
*4 TR501 OPEN
*15 CF501
R519 470
R518 220
R521 4.7K
TR502 2SC2413K(Q)
R522 330
R523 1.2K
C507 CK0.01
*14 CF502
C508 CK0.01
*27 TR503 DTA114EK
C503 CK0.01
R503 1K
C504 CK0.01
C505 CK0.01
C506 OPEN
C574 100P(J)
TR504 DTA114EK
R531 0
ZD502 MTZJ9.1A
L504 2.2uH
T501 MW_ANT-OSC_COIL
*34 S501 OPEN
10K
9K
J510 OPEN
R524 100K
C509 12P
C570 10/16
TR505 RN2402
R525 1K
C510 CK0.01
C511 47/16
C588 CF0.027J
R526 5.6K
C512 CK0.01
R527 10K
C513 1/50
*28 R578 0
R528 2.7K
C560 OPEN
C556 OPEN
R595 0
R529 1K
IC507 LC72131M
XL503 7.2MHZ
C557 15P
C558 15P
C559 1/50
C561 0.01Z
R532 0
C562 0.1Z
C514 0.01Z
C515 47/16
T502 FM_DET_TRANS
C544 CK0.01
*33 C547 OPEN
C516 CK0.01
C517 CK0.01
C548 OPEN
*32 C518 OPEN
R533 15K
IC502 LA1265(S)
CF504 BFU450C4(C.F)
R534 120
*13 C527 1/50
*21 R535 18K
*23 C519 OPEN
C573 OPEN
CX931 3P-NH
R536 0
C528 47/16
CF503 CSB456F11
C529 1/50
R543 3.3K
C530 0.22/50
C531 1/50
C533 CF0.047J
C534 CF0.056J
VR502 100K
R540 10K
R541 10K
R542 3.3K
C520 100P(J)
C521 CK0.01
C522 CK0.01
C523 CK0.01
C524 0.47/50
C571 1/50
C525 10/50
T503 AMIFT
R538 6.8K
R539 5.6K
VR501 10K
C526 CK0.022
CF505 SFU450B3
R537 68K
*11 C536 100P(J)
C535 22/16(BP)
*20 R579 0
*16 C537 OPEN
*17 LF501 OPEN
C538 22/16
*9 C539 750P(J)
*8 R544 100K
*10 R575 120K
+5.3V
R582 0
L510 10uH
J501 SHORT
JK502 2P_PIN_JACK
L
R
MD/TAPE
IN
FG
R593 470
R592 470
*31 C564 OPEN
*31 C565 OPEN
R571 2.7M
R572 2.7M
C587 0.1Z
1U-3105-1(1/2)
TUNER EXT IN UNIT
CW082 8P_TUC-P
FSTEP
TU-R
GND(A1)
TU-L
GND(A1)
TAPE IN-R
GND(A1)
TAPE IN-L
To CONTROL UNIT 1U-3107-1 (SHEET 9/9)

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

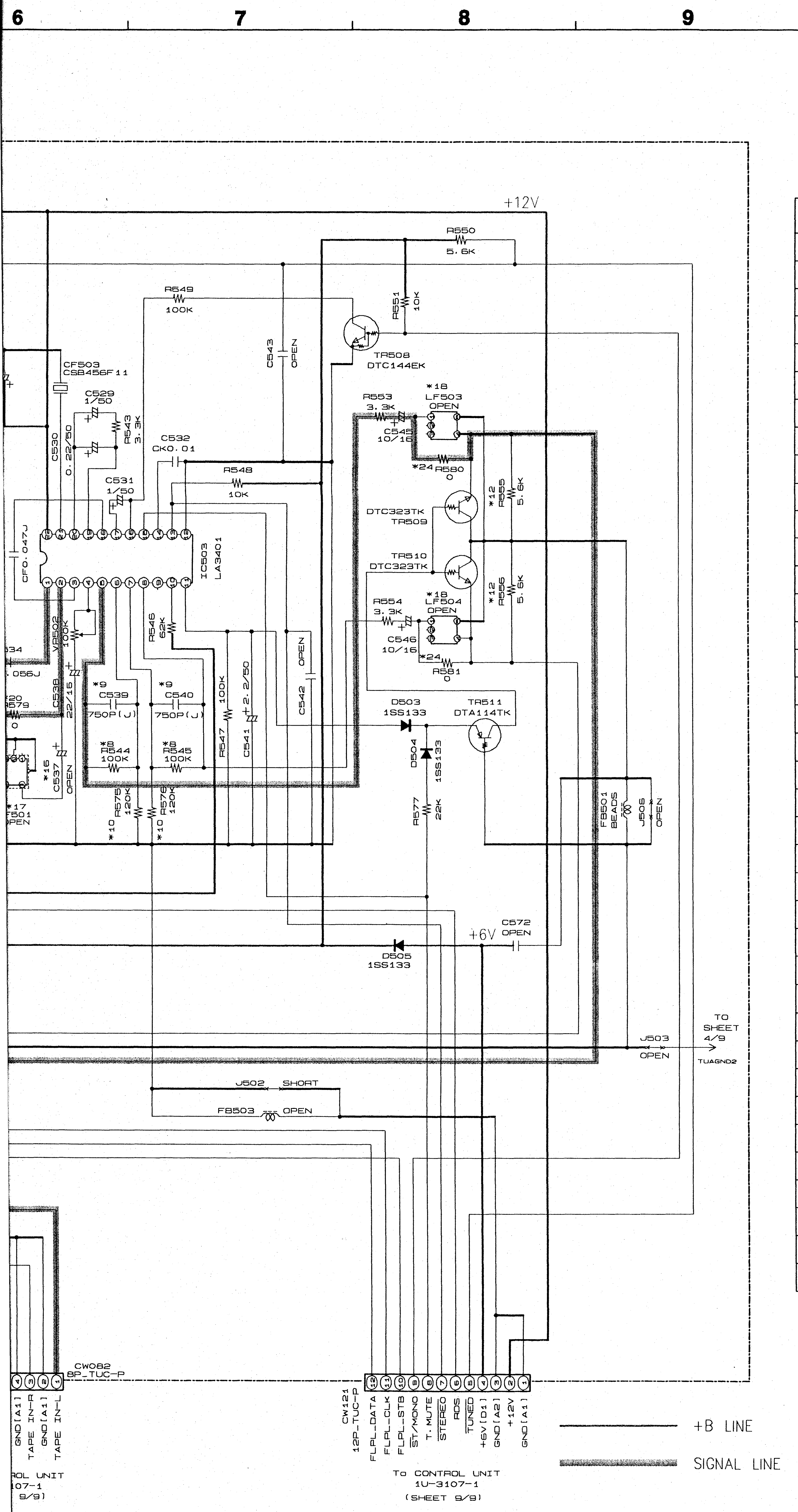
Parts marked with this symbol ⚠ ▨ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:

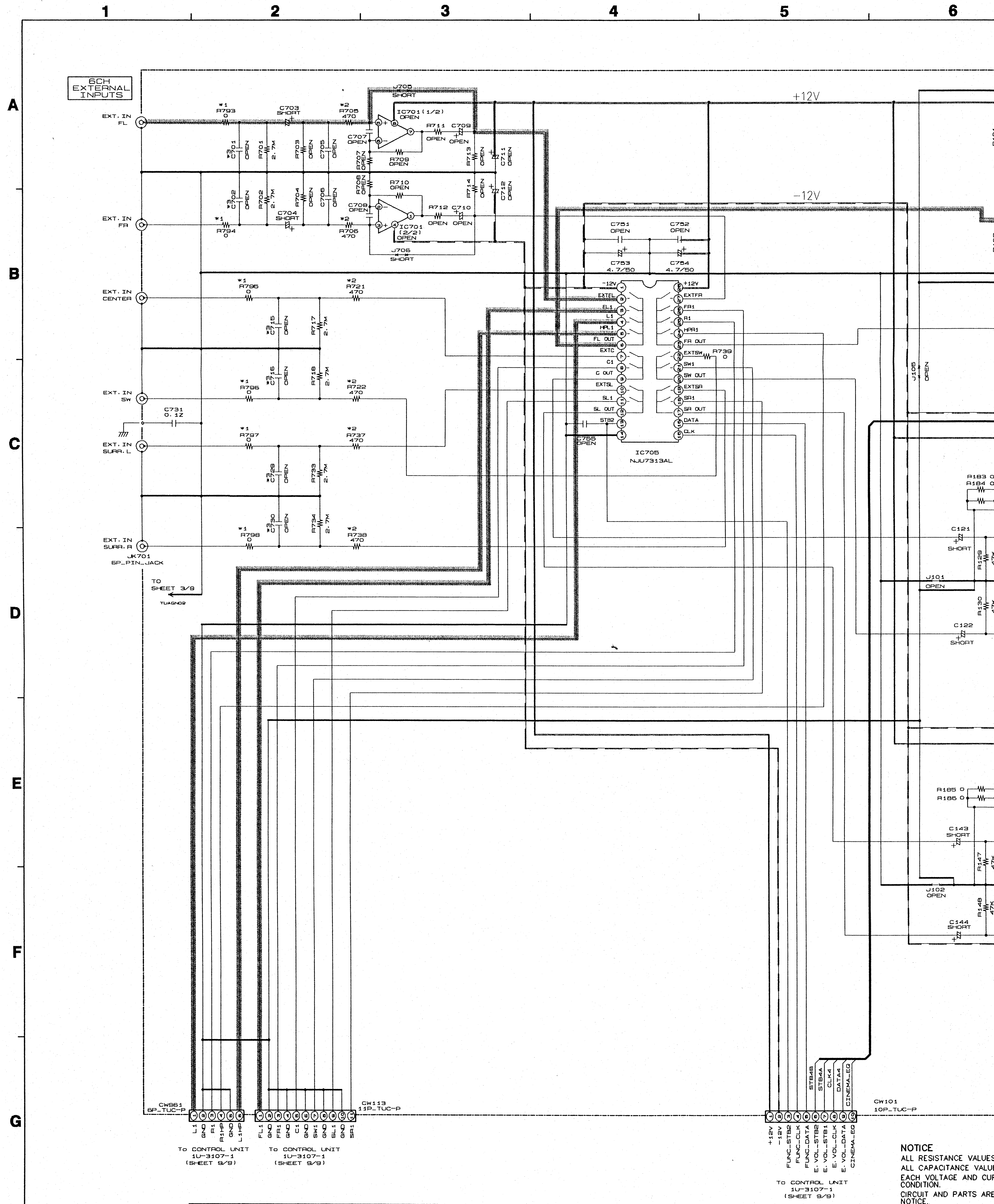
DO NOT return the unit to the customer until the problem is located and corrected.


6
7
8
9
10
11
+12V
R550 5.6K
R549 100K
R551 10K
C543 OPEN
TR508 DTC144EK
CF503 CSB456F11
C529 1/50
C530 0.22/50
R543 3.3K
C532 CK0.01
C531 1/50
R548 10K
CF0.047J
IC503 LA3401
VR502 100K
C538 22/16
R546 62K
*9 C539 750P(J)
*9 C540 750P(J)
*8 R544 100K
*8 R545 100K
*10 R575 120K
*10 R576 120K
R547 100K
C541 2.2/50
C542 OPEN
*16 C537 OPEN
*17 LF501 OPEN
R553 3.3K
*18 LF503 OPEN
C545 10/16
*24 R580 0
DTC323TK TR509
TR510 DTC323TK
*12 R555 5.6K
*12 R556 5.6K
R554 3.3K
*18 LF504 OPEN
C546 10/16
*24 R581 0
D503 1SS133
TR511 DTA114TK
D504 1SS133
R577 22K
FB501 BEADS
J506 OPEN
D505 1SS133
+6V
C572 OPEN
TO SHEET 4/9
J503 OPEN
TUAGND2
J502 SHORT
FB503 OPEN
CW082 8P_TUC-P
GND[A1]
TAPE IN-R
GND[A1]
TAPE IN-L
CW121 12P_TUC-P
FLPL_DATA
FLPL_CLK
FLPL_STB
ST/MONO
T.MUTE
STEREO
RDS
TUNED
+6V[D1]
GND[A2]
+12V
GND[A1]
To CONTROL UNIT 1U-3107-1 (SHEET 9/9)
+B LINE
SIGNAL LINE
A
B
C
D
E
F
G
H

*	NO	* USA	TAIWAN R.O.C.	ASIA	EUROPE	JAPAN
1	R514	100			100	0
2	R515	100			---	100
3	R516	1K			330	330
4	TR501	---			2SK211(GR)	---
5	R517	---			330	---
6	R502	---			0	---
7	R536	0			2.7K	0
8	R544.545	100K			150K	130K
9	C539.540	750p	510p		330P	390p
10	R575.576	120K			200K	160K
11	C536	100p			---	100p
12	R555.556	5.6K			3.3K	3.3K
13	C527	1/50	0.33/50		0.33/50	0.33/50
14	CF502	SFE 10.7MS2G			SFT 10.7MS2	SFE 10.7MS2G
15	CF501	SFE 10.7MA8			SFT 10.7MS2	SFE 10.7MA8
16	C537	---			22/16	---
17	LF501	---			ANTI BIRDIE FILTER	---
18	LF503.504	---			LPF 2320085004	LPF 2320085004
19	IC501	F/E 2160102008			F/E 2169013004	F/E 2169012005
20	R579	0			---	0
21	R535	18K	39K		39K	18K
22	R520	1K			1K	---
23	C549	---			CK100p	---
24	R580.581	0			---	---
25	D501	1SS270A			1SS270A	---
26	R501	10			10	---
27	TR503	DTA114EK			DTA114EK	---
28	R578	0			0	---
29	R645	---			10K	---
30	R646	---			5.6K	---
31	C564.565	---		330P	330P	---
32	C518	---			270P	---
33	C547	---			---	100P
34	S501	---		SLIDE SW	---	---

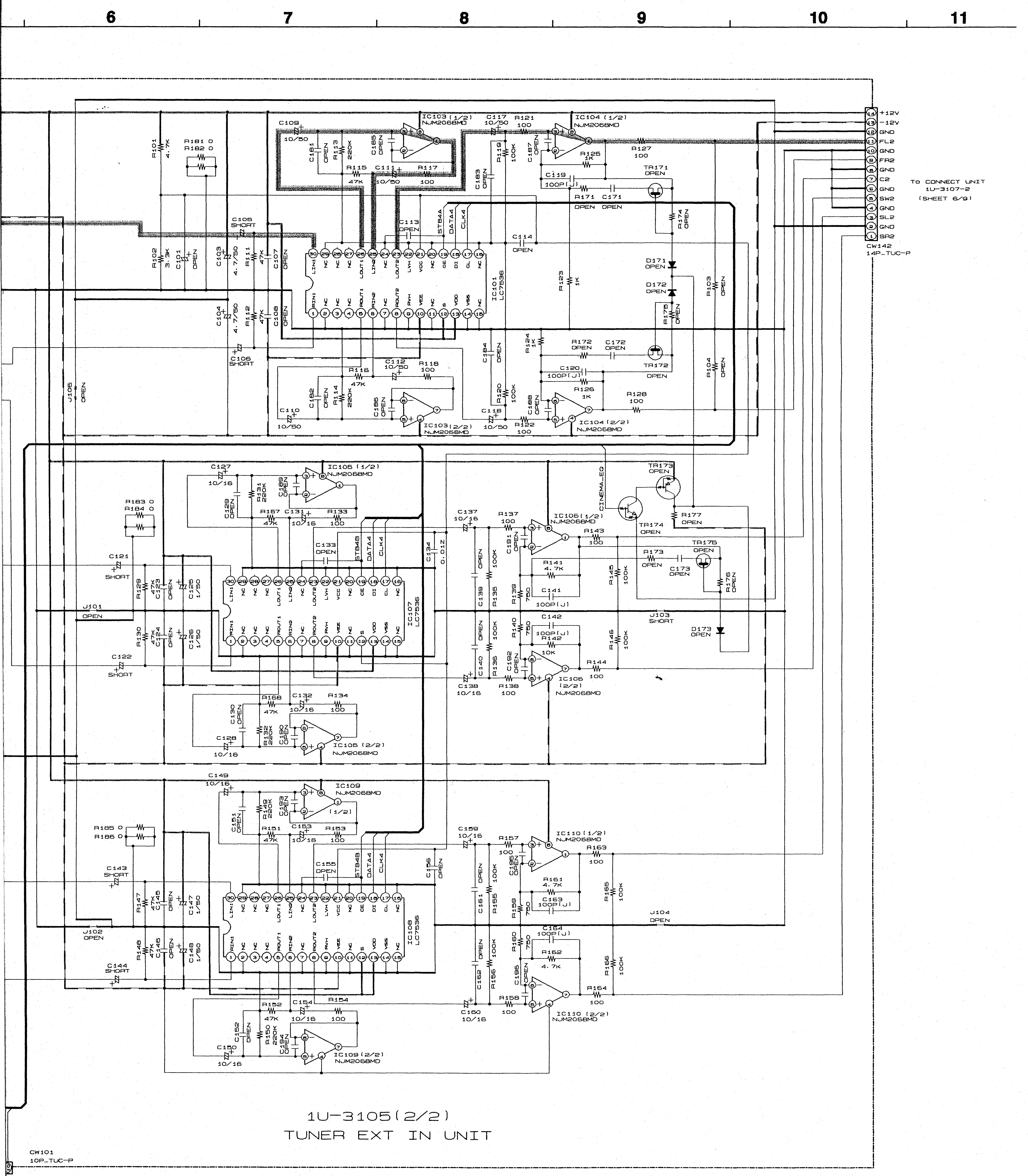
SCHEMATIC DIAGRAM (3/9)

SCHEMATIC DIAGRAM (4/9)


1
2
3
4
5
6
A
B
C
D
E
F
G
6CH EXTERNAL INPUTS
EXT. IN FL
EXT. IN FR
EXT. IN CENTER
EXT. IN SW
EXT. IN SURR. L
EXT. IN SURR. R
JK701 6P_PIN_JACK
TO SHEET 3/9
TUAGND2
*1 R793 0
*1 R794 0
*1 R796 0
*1 R797 0
*1 R798 0
*3 C701 OPEN
*3 C702 OPEN
R701 2.7M
R702 2.7M
C703 SHORT
C704 SHORT
R703 OPEN
R704 OPEN
C705 OPEN
C706 OPEN
*2 R705 470
*2 R706 470
C707 OPEN
C708 OPEN
R707 OPEN
R708 OPEN
R709 OPEN
R710 OPEN
J705 SHORT
J706 SHORT
IC701(1/2) OPEN
IC701 (2/2) OPEN
R711 OPEN
C709 OPEN
R712 OPEN
C710 OPEN
R713 OPEN
R714 OPEN
C711 OPEN
C712 OPEN
+12V
-12V
*3 C715 OPEN
*3 C716 OPEN
*3 C729 OPEN
*3 C730 OPEN
R717 2.7M
R718 2.7M
R733 2.7M
R734 2.7M
*2 R721 470
*2 R722 470
*2 R737 470
*2 R738 470
C731 0.1Z
C751 OPEN
C752 OPEN
C753 4.7/50
C754 4.7/50
-12V
EXTFL
FL1
L1
HPL1
FL OUT
EXTC
C1
C OUT
EXTSL
SL1
SL OUT
STB2
+12V
EXTFR
FR1
R1
HPR1
FR OUT
EXTSW
R739 0
SW1
SW OUT
EXTSR
SR1
SR OUT
DATA
CLK
C755 OPEN
IC705 NJU7313AL
J105 OPEN
R183 0
R184 0
C121 SHORT
R129
J101 OPEN
R130
C122 SHORT
R185 0
R186 0
C143 SHORT
R147
J102 OPEN
R148
C144 SHORT
CW961 6P_TUC-P
L1
GND
R1
R1HP
GND
L1HP
To CONTROL UNIT 1U-3107-1 (SHEET 9/9)
CW113 11P_TUC-P
FL1
GND
FR1
GND
C1
GND
SW1
GND
SL1
GND
SR1
To CONTROL UNIT 1U-3107-1 (SHEET 9/9)
CW101 10P_TUC-P
+12V
-12V
FUNC_STB2
FUNC_CLK
FUNC_DATA
E. VOL_STB2
E. VOL_STB1
E. VOL_CLK
E. VOL_DATA
CINEMA_EQ
STB4B
STB4A
CLK4
DATA4
CINEMA_EQ
To CONTROL UNIT 1U-3107-1 (SHEET 9/9)

NOTICE
ALL RESISTANCE VALUES
ALL CAPACITANCE VALU
EACH VOLTAGE AND CUR
CONDITION.
CIRCUIT AND PARTS ARE
NOTICE.

	*1 R793~798	*2 R705, 706, 721, 722, 737, 738	*3 C701, 702, 715, 716, 729, 730
USA TAIWAN R. O. C JAPAN	0	470	---
ASIA EUROPE	470	100	330P


6
7
8
9
10
11
1U-3105(2/2)
TUNER EXT IN UNIT
CW101
10P_TUC-P
CINEMA_EQ
CW142
14P_TUC-P
To CONNECT UNIT
1U-3107-2
(SHEET 6/9)
+12V
-12V
GND
FL2
GND
FR2
GND
C2
GND
SW2
GND
SL2
GND
SR2
IC101 LC7536
IC107 LC7536
IC108 LC7536
IC103 (1/2) NJM2068MD
IC103 (2/2) NJM2068MD
IC104 (1/2) NJM2068MD
IC104 (2/2) NJM2068MD
IC105 (1/2) NJM2068MD
IC105 (2/2) NJM2068MD
IC106 (1/2) NJM2068MD
IC106 (2/2) NJM2068MD
IC109 NJM2068MD (1/2)
IC109 (2/2) NJM2068MD
IC110 (1/2) NJM2068MD
IC110 (2/2) NJM2068MD
STB4A
DATA4
CLK4
STB4B
TR171 OPEN
TR172 OPEN
TR173 OPEN
TR174 OPEN
TR175 OPEN
D171 OPEN
D172 OPEN
D173 OPEN
J101 OPEN
J102 OPEN
J103 SHORT
J104 OPEN
J105 OPEN

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

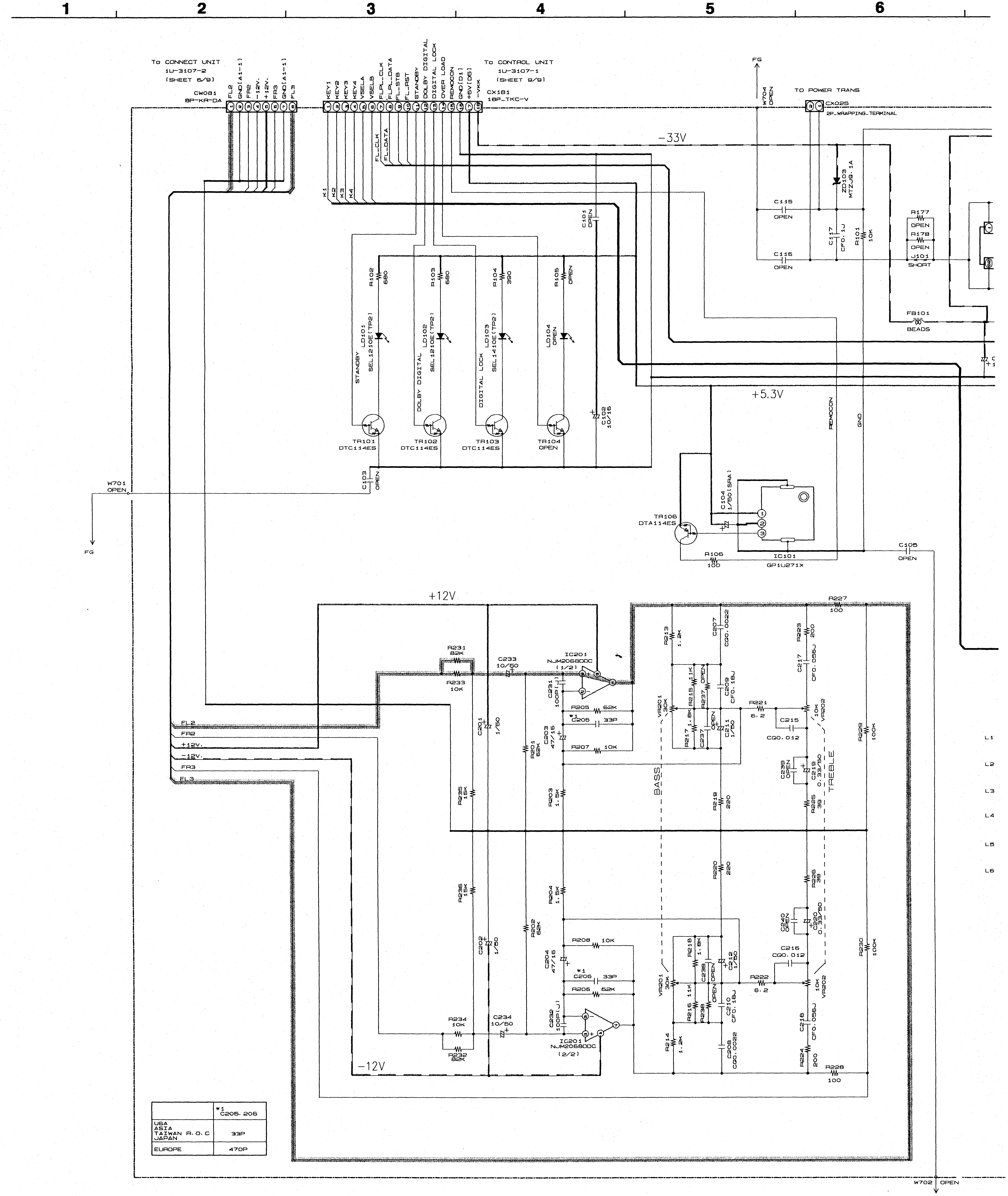
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

——— +B LINE
— — — -B LINE
▬▬▬ SIGNAL LINE

SCHEMATIC DIAGRAM (4/9)

SCHEMATIC DIAGRAM (5/9)


1
2
3
4
5
6
To CONNECT UNIT
1U-3107-2
(SHEET 6/9)
CW081
8P-KR-DA
FL2
GND(A1-1)
FR2
-12V.
+12V.
FR3
GND(A1-1)
FL3
KEY1
KEY2
KEY3
KEY4
VSELA
VSELB
FLPL_CLK
FLPL_DATA
FL_STB
FL_RST
STANDBY
DOLBY DIGITAL
DIGITAL LOCK
OVER LOAD
REMOCON
GND(D1)
+5V(D5)
-VKK
To CONTROL UNIT
1U-3107-1
(SHEET 9/9)
CX181
18P_TKC-V
FG
W704
OPEN
TO POWER TRANS
CX025
2P_WRAPPING_TERMINAL
-33V
K1
K2
K3
K4
FL_CLK
FL_DATA
C101
OPEN
ZD103
MTZJ9.1A
C115
OPEN
C116
OPEN
C117
CF0.1J
R101
10K
R177
OPEN
R178
OPEN
J101
SHORT
FB101
BEADS
R102
680
R103
680
R104
390
R105
OPEN
STANDBY
LD101
SEL1210E(TP2)
DOLBY DIGITAL
LD102
SEL1210E(TP2)
DIGITAL LOCK
LD103
SEL1410E(TP2)
LD104
OPEN
C102
10/16
TR101
DTC114ES
TR102
DTC114ES
TR103
DTC114ES
TR104
OPEN
C103
OPEN
W701
OPEN
FG
+5.3V
REMOCON
GND
C104
1/50(SRA)
TR106
DTA114ES
R106
100
IC101
GP1U271X
C105
OPEN
+12V
R231
82K
R233
10K
C233
10/50
IC201
NJM2068DDC
(1/2)
C231
100P(J)
R205
62K
*1
C205
33P
C201
1/50
R201
62K
C203
47/16
R207
10K
R235
15K
R203
1.5K
BASS
R213
1.2K
C207
CQ0.0022
VR201
30K
R215
11K
R217
1.8K
R237
OPEN
C237
OPEN
C209
CF0.18J
C211
1/50
R221
6.2
C215
CQ0.012
R219
220
C239
OPEN
C219
0.33/50
R225
39
TREBLE
R227
100
R223
200
C217
CF0.056J
VR202
10K
R229
100K
L1
L2
L3
L4
L5
L6
FL2
FR2
+12V.
-12V.
FR3
FL3
R236
15K
R204
1.5K
R220
220
R226
39
C240
OPEN
C220
0.33/50
C202
1/50
R202
62K
R208
10K
C204
47/16
*1
C206
33P
R206
62K
C232
100P(J)
IC201
NJM2068DDC
(2/2)
R234
10K
R232
82K
C234
10/50
-12V
R216
11K
R218
1.8K
R238
OPEN
C238
OPEN
C210
CF0.18J
C212
1/50
R222
6.2
C216
CQ0.012
C208
CQ0.0022
R214
1.2K
C218
CF0.056J
R224
200
R228
100
R230
100K
W702
OPEN
FG

	*1 C205, 206
USA ASIA TAIWAN R.O.C JAPAN	33P
EUROPE	470P

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
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WARNING:

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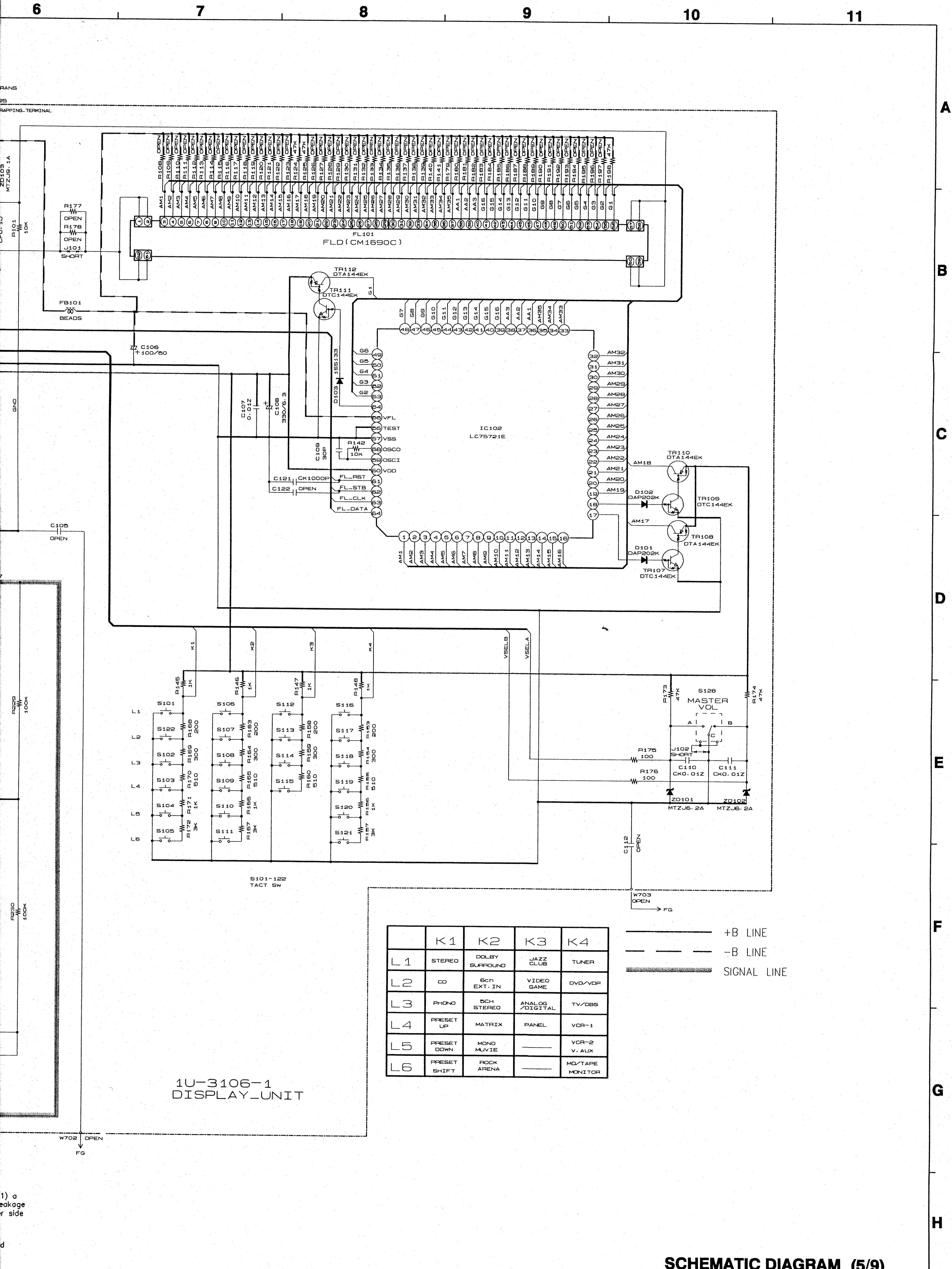
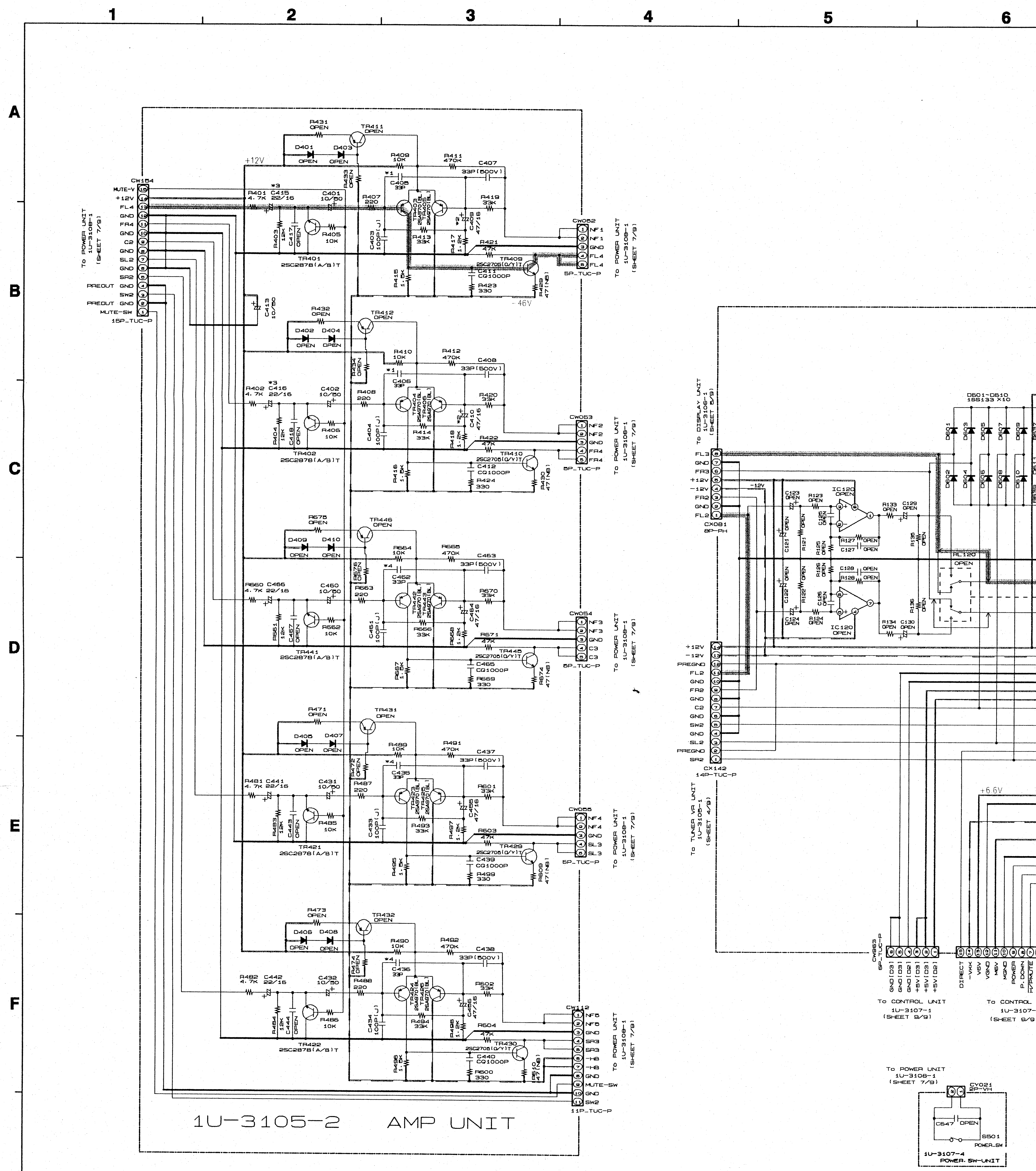

6
7
8
9
10
11
A
B
C
D
E
F
G
H
FL101
FLD(CM1690C)
IC102
LC75721E
TR112
DTA144EK
TR111
DTC144EK
TR110
DTA144EK
TR109
DTC144EK
TR108
DTA144EK
TR107
DTC144EK
D101
DAP202K
D102
DAP202K
D103
1SS133
ZD103
MTZJ9.1A
R101
10K
R177
R178
OPEN
J101
SHORT
FB101
BEADS
C106
100/50
C105
OPEN
C107
0.01Z
C108
330/6.3
C109
30P
R142
10K
C121
CK1000P
C122
OPEN
VFL
TEST
VSS
OSCO
OSCI
VDD
FL_RST
FL_STB
FL_CLK
FL_DATA
GND
K1
K2
K3
K4
VSELB
VSELA
S101~122
TACT SW
S128
MASTER VOL
J102
SHORT
R173
47K
R174
47K
R175
100
R176
100
C110
CK0.01Z
C111
CK0.01Z
ZD101
MTZJ6.2A
ZD102
MTZJ6.2A
C112
OPEN
W703
OPEN
W702
OPEN
FG
R229
100K
R230
100K
1U-3106-1
DISPLAY_UNIT
+B LINE
-B LINE
SIGNAL LINE

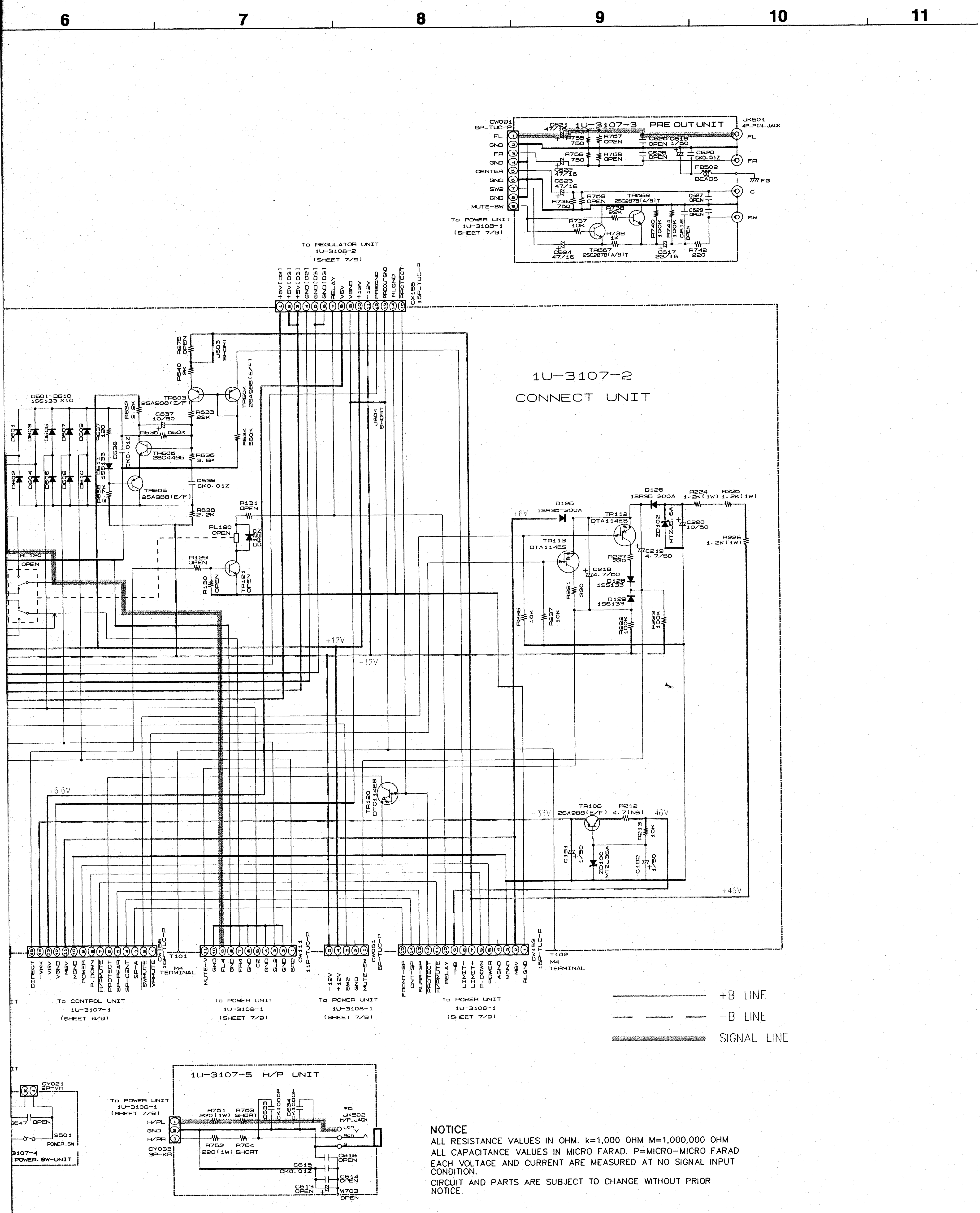
	K1	K2	K3	K4
L1	STEREO	DOLBY SURROUND	JAZZ CLUB	TUNER
L2	CD	6ch EXT. IN	VIDEO GAME	DVD/VDP
L3	PHONO	5CH STEREO	ANALOG /DIGITAL	TV/DBS
L4	PRESET UP	MATRIX	PANEL	VCR-1
L5	PRESET DOWN	MONO MUVIE	—	VCR-2 V. AUX
L6	PRESET SHIFT	ROCK ARENA	—	MD/TAPE MONITOR

SCHEMATIC DIAGRAM (5/9)

SCHEMATIC DIAGRAM (6/9)


1
2
3
4
5
6
A
B
C
D
E
F
G
H
1U-3105-2 AMP UNIT
CW154
15P_TUC-P
MUTE-V
+12V
FL4
GND
FR4
GND
C2
GND
SL2
GND
SR2
PREOUT GND
SW2
PREOUT GND
MUTE-SW
To POWER UNIT 1U-3108-1 (SHEET 7/9)
+12V
-46V
R431 OPEN
TR411 OPEN
D401 OPEN
D403 OPEN
R409 10K
R411 470K
C407 33P(500V)
R401 4.7K
C415 22/16
C401 10/50
R433 OPEN
R407 220
C405 33P
R419 33K
R403 12K
C417 OPEN
R405 10K
TR401 2SC2878(A/B)T
C403 100P(J)
TR403 2SA970(BL)
TR405 2SA970(BL)
R413 33K
R417 1.2K
C409 47/16
R421 47K
TR409 2SC2705(O/Y)T
C411 CQ1000P
R423 330
R429 47(NB)
R415 1.5K
C413 10/50
CW052
NF1
NF1
GND
FL4
FL4
5P_TUC-P
R432 OPEN
TR412 OPEN
D402 OPEN
D404 OPEN
R410 10K
R412 470K
C408 33P(500V)
R434 OPEN
R402 4.7K
C416 22/16
C402 10/50
R408 220
C406 33P
R420 33K
R404 12K
C418 OPEN
R406 10K
TR402 2SC2878(A/B)T
C404 100P(J)
TR404 2SA970(BL)
TR406 2SA970(BL)
R414 33K
R418 1.2K
C410 47/16
R422 47K
TR410 2SC2705(O/Y)T
C412 CQ1000P
R424 330
R430 47(NB)
R416 1.5K
CW053
NF2
NF2
GND
FR4
FR4
5P_TUC-P
R675 OPEN
TR446 OPEN
D409 OPEN
D410 OPEN
R664 10K
R665 470K
C463 33P(500V)
R676 OPEN
R660 4.7K
C466 22/16
C460 10/50
R663 220
C462 33P
R670 33K
R651 12K
C457 OPEN
R662 10K
TR441 2SC2878(A/B)T
C461 100P(J)
TR442 2SA970(BL)
TR443 2SA970(BL)
R666 33K
R668 1.2K
C464 47/16
R671 47K
TR448 2SC2705(O/Y)T
C465 CQ1000P
R669 330
R674 47(NB)
R667 1.5K
CW054
NF3
NF3
GND
C3
C3
5P_TUC-P
R471 OPEN
TR431 OPEN
D405 OPEN
D407 OPEN
R489 10K
R491 470K
C437 33P(500V)
R472 OPEN
R481 4.7K
C441 22/16
C431 10/50
R487 220
C435 33P
R601 33K
R483 12K
C443 OPEN
R485 10K
TR421 2SC2878(A/B)T
C433 100P(J)
TR423 2SA970(BL)
TR425 2SA970(BL)
R493 33K
R497 1.2K
C455 47/16
R603 47K
TR429 2SC2705(O/Y)T
C439 CQ1000P
R499 330
R609 47(NB)
R495 1.5K
CW055
NF4
NF4
GND
SL3
SL3
5P_TUC-P
R473 OPEN
TR432 OPEN
D406 OPEN
D408 OPEN
R490 10K
R492 470K
C438 33P(500V)
R474 OPEN
R482 4.7K
C442 22/16
C432 10/50
R488 220
C436 33P
R602 33K
R484 12K
C444 OPEN
R486 10K
TR422 2SC2878(A/B)T
C434 100P(J)
TR424 2SA970(BL)
TR426 2SA970(BL)
R494 33K
R498 1.2K
C456 47/16
R604 47K
TR430 2SC2705(O/Y)T
C440 CQ1000P
R600 330
R610 47(NB)
R496 1.5K
CW112
11P_TUC-P
NF5
NF5
GND
SR3
SR3
-HB
-HB
GND
MUTE-SW
GND
SW2
*1
*2
*3
*4
To DISPLAY UNIT 1U-3106-1 (SHEET 8/9)
CX081
8P-PH
FL3
GND
FR3
+12V
-12V
FR2
GND
FL2
-12V
C123 OPEN
R123 OPEN
IC120 OPEN
R133 OPEN
C129 OPEN
C121 OPEN
R121 OPEN
C125 OPEN
R125 OPEN
R127 OPEN
C127 OPEN
R135 OPEN
RL120 OPEN
C122 OPEN
R122 OPEN
R126 OPEN
C126 OPEN
C128 OPEN
R128 OPEN
R136 OPEN
C124 OPEN
R124 OPEN
IC120 OPEN
R134 OPEN
C130 OPEN
D501~D510 1SS133 X10
D601
D602
D603
D604
D605
D606
D607
D608
D609
D610
To TUNER VR UNIT 1U-3105-1 (SHEET 4/9)
CX142
14P-TUC-P
+12V
-12V
PREGND
FL2
GND
FR2
GND
C2
GND
SW2
GND
SL2
PREGND
SR2
+6.6V
CW863
6P_TUC-P
GND(D3)
GND(D3)
GND(D2)
+5V(D3)
+5V(D3)
+5V(D2)
To CONTROL UNIT 1U-3107-1 (SHEET 9/9)
DIRECT
-VKK
V6V
VGND
M6V
MGND
POWER
P.DOWN
H/PMUTE
To CONTROL 1U-3107- (SHEET 9/9)
To POWER UNIT 1U-3108-1 (SHEET 7/9)
CY021
2P-VH
C547 OPEN
S501 POWER_SW
1U-3107-4 POWER. SW-UNIT

	*1 C405. 406	*2 C409. 410	*3 C415. 416	*4 C435. 436. 462	*5 JK501
*USA TAIWAN R.O.C. JAPAN	33P	47/16	22/16	33P	N1
EUROPE	220P	100/16	47/16	220P	N1
ASIA	220P	47/16	22/16	220P	Gold


6
7
8
9
10
11
1U-3107-3 PRE OUT UNIT
CW091
9P_TUC-P
FL
GND
FR
GND
CENTER
GND
SW2
GND
MUTE-SW
To POWER UNIT
1U-3108-1
(SHEET 7/9)
C621 47/16
R755 750
R757 OPEN
C626 C619 OPEN 1/50
R756 750
R758 OPEN
C625 OPEN
C620 CK0.01Z
FB502 BEADS
C622 47/16
C623 47/16
R736 750
R759 OPEN
TR568 2SC2878(A/B)T
R738 22K
C627 OPEN
C628 OPEN
R737 10K
R739 1K
R740 100K
R741 100K
C618 OPEN
C624 47/16
TR567 2SC2878(A/B)T
C617 22/16
R742 220
JK501
4P_PIN_JACK
FL
FR
FG
C
SW
To REGULATOR UNIT
1U-3108-2
(SHEET 7/9)
+5V(D2)
+5V(D3)
+5V(D3)
GND(D2)
GND(D3)
GND(D3)
RELAY
V6V
VGND
+12V
-12V
PREGND
PREOUTGND
RLGND
PROTECT
CX155
15P_TUC-P
1U-3107-2
CONNECT UNIT
R675 OPEN
J603 SHORT
R640 2K
TR603 2SA988(E/F)
TR504 2SA988(E/F)
D501-D510 1SS133 X10
D601
D602
D603
D604
D605
D606
D607
D608
D609
D610
R632 2.2K
C637 10/50
R633 22K
R637 120
C638
R635 560K
R634 560K
TR605 2SC4495
R636 3.6K
D611 1SS133
R639 2.7K
CK0.01Z
TR606 2SA988(E/F)
C639 CK0.01Z
R638 2.2K
J604 SHORT
R131 OPEN
RL120 OPEN
D120 OPEN
R129 OPEN
R130 OPEN
TR121 OPEN
RL120
OPEN
D126 1SR35-200A
R224 1.2K(1W)
R225 1.2K(1W)
+6V
TR112 DTA114ES
ZD102 MTZJ5.6A
C220 10/50
R226 1.2K(1W)
TR113 DTA114ES
R227 220
C219 4.7/50
C218 4.7/50
D128 1SS133
D129 1SS133
R221 220
R236 10K
R237 10K
R222 100K
R223 100K
+12V
-12V
+6.6V
TR120 DTC114ES
-33V
TR106 2SA988(E/F)
R212 4.7(NB)
-46V
R213 10K
C191 1/50
ZD100 MTZJ36A
C192 1/50
+46V
DIRECT
-VKK
V6V
VGND
M6V
MGND
POWER
P.DOWN
H/PMUTE
PROTECT
SP-REAR
SP-CENT
SP-A
SWMUTE
VRMUTE
CW156
15P-TUC-P
T101
M4
TERMINAL
To CONTROL UNIT
1U-3107-1
(SHEET 8/9)
MUTE-V
GND
FL4
GND
FR4
GND
C2
GND
SL2
GND
SR2
CW111
11P-TUC-P
To POWER UNIT
1U-3108-1
(SHEET 7/9)
-12V
+12V
SW2
GND
MUTE-SW
CW051
5P-TUC-P
To POWER UNIT
1U-3108-1
(SHEET 7/9)
FRONT-SP
CNT-SP
SURR-SP
PROTECT
H/PMUTE
RELAY
-HB
LIMIT-
LIMIT+
P.DOWN
POWER
AGND
MGND
M6V
RLGND
CW153
15P-TUC-P
T102
M4
TERMINAL
To POWER UNIT
1U-3108-1
(SHEET 7/9)
+B LINE
-B LINE
SIGNAL LINE
1U-3107-5 H/P UNIT
To POWER UNIT
1U-3108-1
(SHEET 7/9)
H/PL
GND
H/PR
CY033
3P-KR
R751 220(1W)
R753 SHORT
R752 220(1W)
R754 SHORT
C633 CK1000P
C634 CK1000P
JK502 H/P_JACK
C615 CK0.01Z
C616 OPEN
C614 OPEN
C613 OPEN
W703 OPEN
CY021
2P-VH
C647 OPEN
S501
POWER_SW
3107-4
POWER SW-UNIT

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

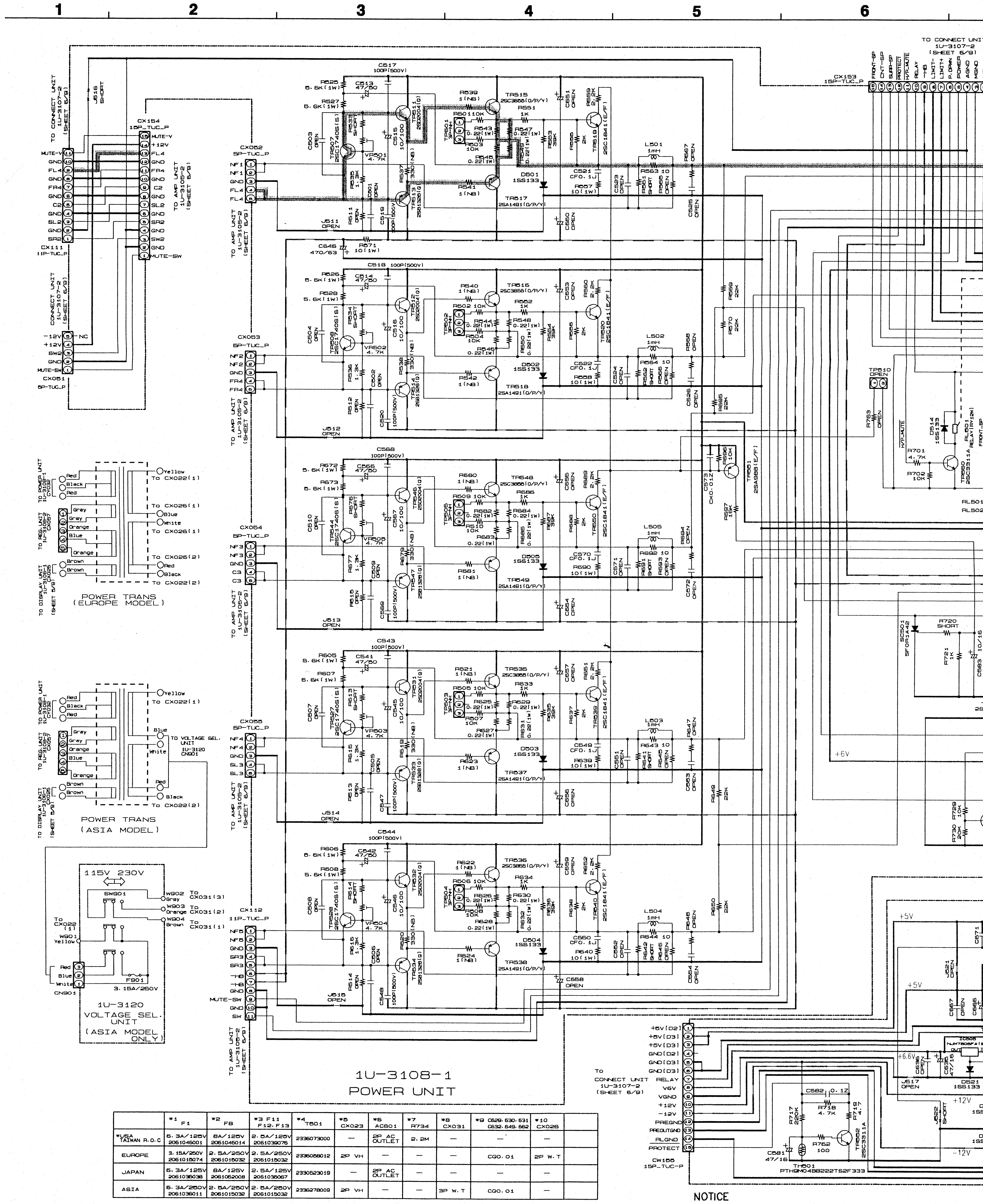
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAM (6/9)

SCHEMATIC DIAGRAM (7/9)


1
2
3
4
5
6
1U-3108-1
POWER UNIT
1U-3120
VOLTAGE SEL.
UNIT
(ASIA MODEL ONLY)
115V 230V
POWER TRANS
(EUROPE MODEL)
POWER TRANS
(ASIA MODEL)
TO CONNECT UNIT 1U-3107-2 (SHEET 6/9)
TO AMP UNIT 1U-3105-2 (SHEET 6/9)
TO POWER UNIT 1U-3108-1 CY032
TO REG. UNIT 1U-3108-2 CX057
TO DISPLAY UNIT 1U-3106-1 CX025 (SHEET 5/9)
CX154 15P_TUC_P
CX111 11P-TUC_P
CX051 5P-TUC_P
CX052 5P-TUC_P
CX053 5P-TUC_P
CX054 5P-TUC_P
CX055 5P-TUC_P
CX112 11P-TUC_P
CX153 15P-TUC_P
CW155 15P-TUC-P
J516 SHORT
F901 3.15A/250V
SW901
TH501 PTH9M04B8222TS2F333
RL501 RELAY(RY12W)
SC501 SFOR1A42

	*1 F1	*2 F8	*3 F11 F12. F13	*4 T501	*5 CX023	*6 AC601	*7 R734	*8 CX031	*9 C629. 630. 631 C632. 649. 662	*10 CX026	
*USA TAIWAN R.O.C	6. 3A/125V 2061046001	8A/125V 2061046014	2. 5A/125V 2061039076	2336073000	—	2P AC OUTLET	2. 2M	—	—	—	
EUROPE	3. 15A/250V 2061015074	2. 5A/250V 2061015032	2. 5A/250V 2061015032	2336058012	2P VH	—	—	—	CQ0. 01	2P W. T	
JAPAN	6. 3A/125V 2061035038	8A/125V 2061052008	2. 5A/125V 2061035067	2330523019	—	2P AC OUTLET	—	—	—	—	
ASIA	6. 3A/250V 2061036011	2. 5A/250V 2061015032	2. 5A/250V 2061015032	2336278009	2P VH	—	—	3P W. T	CQ0. 01	—	

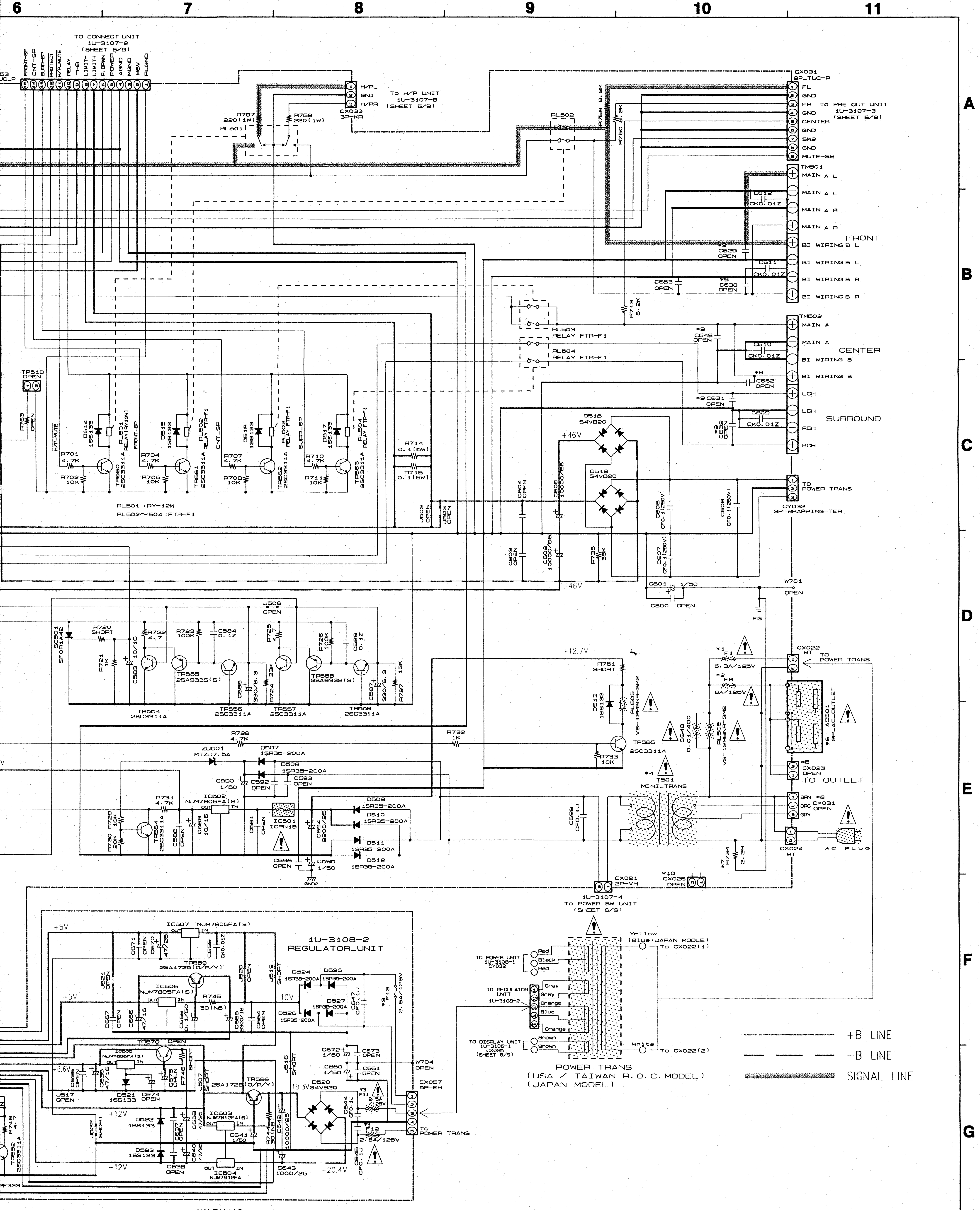
NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.


6
7
8
9
10
11
A
B
C
D
E
F
G
H
TO CONNECT UNIT
1U-3107-2
(SHEET 6/9)
FRONT-SP
CNT-SP
SURR-SP
PROTECT
H/P_MUTE
RELAY
-HB
LIMIT-
LIMIT+
P.DPWN
POWER
AGND
MGND
M6V
RLGND
H/PL
GND
H/PR
To H/P UNIT
1U-3107-5
(SHEET 6/9)
CX033
3P-KR
R757
220(1W)
R758
220(1W)
RL501
RL502
R759 8.2K
R760 8.2K
CX091
9P_TUC-P
FL
GND
FR
To PRE OUT UNIT
1U-3107-3
(SHEET 6/9)
CENTER
SW2
MUTE-SW
TM501
MAIN A L
MAIN A R
FRONT
BI WIRING B L
BI WIRING B R
C612
CK0.01Z
C611
CK0.01Z
C629
OPEN
C630
OPEN
C663
OPEN
R713
8.2K
RL503
RELAY FTR-F1
RL504
RELAY FTR-F1
TM502
MAIN A
CENTER
BI WIRING B
C610
CK0.01Z
C649
OPEN
C662
OPEN
C631
OPEN
LCH
RCH
SURROUND
C609
CK0.01Z
C632
OPEN
TP510
OPEN
R763
OPEN
H/P_MUTE
FRONT_SP
CNT_SP
SURR_SP
D514 1SS133
D515 1SS133
D516 1SS133
D517 1SS133
RL501 RELAY(RY12W)
RL502 RELAY FTR-F1
RL503 RELAY FTR-F1
RL504 RELAY FTR-F1
R701 4.7K
R702 10K
R704 4.7K
R705 10K
R707 4.7K
R708 10K
R710 4.7K
R711 10K
TR560 2SC3311A
TR561 2SC3311A
TR562 2SC3311A
TR563 2SC3311A
RL501 :RY-12W
RL502~504 :FTR-F1
R714
0.1(5W)
R715
0.1(5W)
J502
OPEN
J503
OPEN
+46V
D518
S4VB20
D519
S4VB20
C604
OPEN
C605
10000/56
C606
CF0.1(250V)
C607
CF0.1(250V)
C608
CF0.1(250V)
C603
OPEN
C602
10000/56
R735
39K
-46V
C601
1/50
C600 OPEN
W701
OPEN
FG
TO
POWER TRANS
CY032
3P-WRAPPING-TER
SC501
SFOR1A42
R720
SHORT
R721
1K
C583
10/16
R722
4.7
R723
100K
C584
0.1Z
J506
OPEN
R725
4.7
R726
100K
C586
0.1Z
TR555
2SA933S(S)
TR558
2SA933S(S)
C585
330/6.3
R724 33K
C587
330/6.3
R727 13K
TR554
2SC3311A
TR556
2SC3311A
TR557
2SC3311A
TR559
2SC3311A
+12.7V
R761
SHORT
D513
1SS133
RL505
VS-12MBNR-SM2
TR565
2SC3311A
R733
10K
*1
F1
6.3A/125V
*2
F8
8A/125V
C648
0.01/400
RL506
VS-12MBNR-SM2
CX022
WT
TO
POWER TRANS
*6
AC501
2P_AC_OUTLET
*5
CX023
OPEN
TO OUTLET
*4
T501
MINI_TRANS
BRN
ORG
GRY
*8
CX031
OPEN
C599
CF0.1J
*7
R734
2.2M
CX024
WT
AC PLUG
R728
4.7K
ZD501
MTZJ7.5A
D507
1SR35-200A
D508
1SR35-200A
R732
1K
C590
1/50
C592
OPEN
C593
OPEN
R731
4.7K
IC502
NJM7806FA(S)
OUT
IN
C591
OPEN
IC501
ICPN15
C594
2200/25
D509
1SR35-200A
D510
1SR35-200A
D511
1SR35-200A
D512
1SR35-200A
R730
20K
R729
10K
TR564
2SC3311A
C588
OPEN
C589
10/16
C596
OPEN
C595
1/50
GND2
CX021
2P-VH
*10
CX026
OPEN
1U-3107-4
To POWER SW UNIT
(SHEET 6/9)
+5V
IC507 NJM7805FA(S)
C671
OPEN
C670
47/25
C669
CK0.01Z
TR569
2SA1725(O/P/Y)
1U-3108-2
REGULATOR_UNIT
J521
OPEN
J520
OPEN
J519
SHORT
D524
1SR35-200A
D525
1SR35-200A
IC506
NJM7805FA(S)
R745
30(NB)
10V
D527
1SR35-200A
D526
1SR35-200A
C647
CF0.1J
*3
F13
2.5A/125V
C667
OPEN
C665
47/16
C668
0.1/50
C665
3300/16
C664
OPEN
TR570
OPEN
IC505
NJM7806FA(S)
+6.6V
C636
OPEN
C635
47/16
C675
OPEN
R746
SHORT
J507
SHORT
J518
SHORT
C672
1/50
C673
OPEN
C660
1/50
C661
OPEN
W704
OPEN
CX057
5P-EH
J517
OPEN
D521
1SS133
C674
OPEN
TR566
2SA1725(O/P/Y)
D520
19.3V S4VB20
C644
CF0.1J
*3
F11
2.5A/125V
+12V
D522
1SS133
C637
OPEN
C639
47/25
IC503
NJM7812FA(S)
C641
1/50
R744
30(NB)
C642
10000/25
F12
2.5A/125V
To
POWER TRANS
J522
SHORT
R719
4.7
TR552
2SC3311A
2F333
D523
1SS133
C640
47/25
-12V
C638
OPEN
IC504
NJM7912FA
C643
1000/25
-20.4V
C645
CF0.1J
Yellow
(Blue:JAPAN MODLE)
To CX022(1)
TO POWER UNIT
1U-3108-1
CY032
Red
Black
Red
TO REGULATOR
UNIT
1U-3108-2
Gray
Gray
Orange
Blue
Orange
TO DISPLAY UNIT
1U-3106-1
CX026
(SHEET 6/9)
Brown
Brown
White
To CX022(2)
POWER TRANS
(USA / TAIWAN R.O.C. MODEL)
(JAPAN MODEL)
+B LINE
-B LINE
SIGNAL LINE

=1,000 OHM M=1,000,000 OHM
) FARAD. P=MICRO-MICRO FARAD
MEASURED AT NO SIGNAL INPUT

TO CHANGE WITHOUT PRIOR

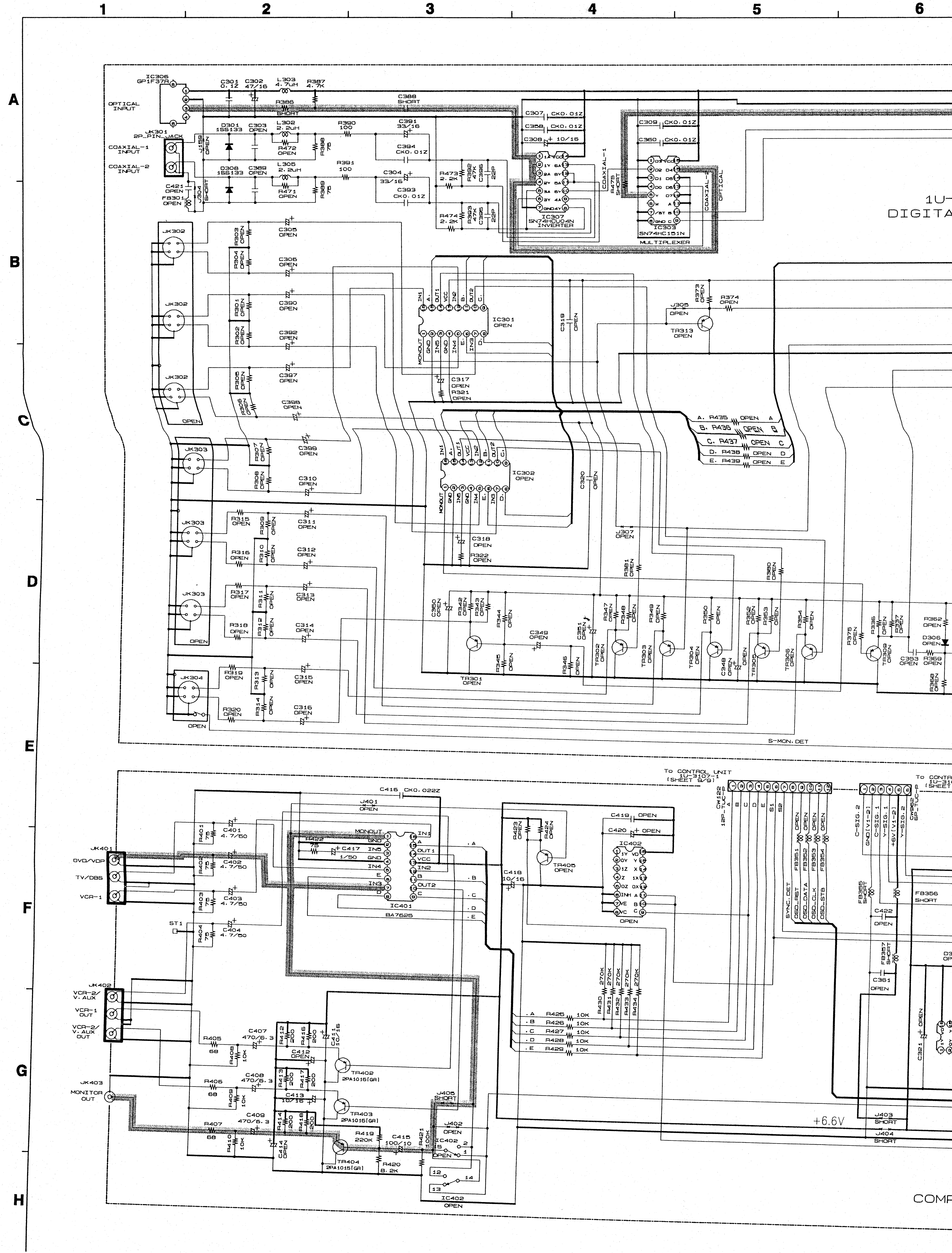
WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

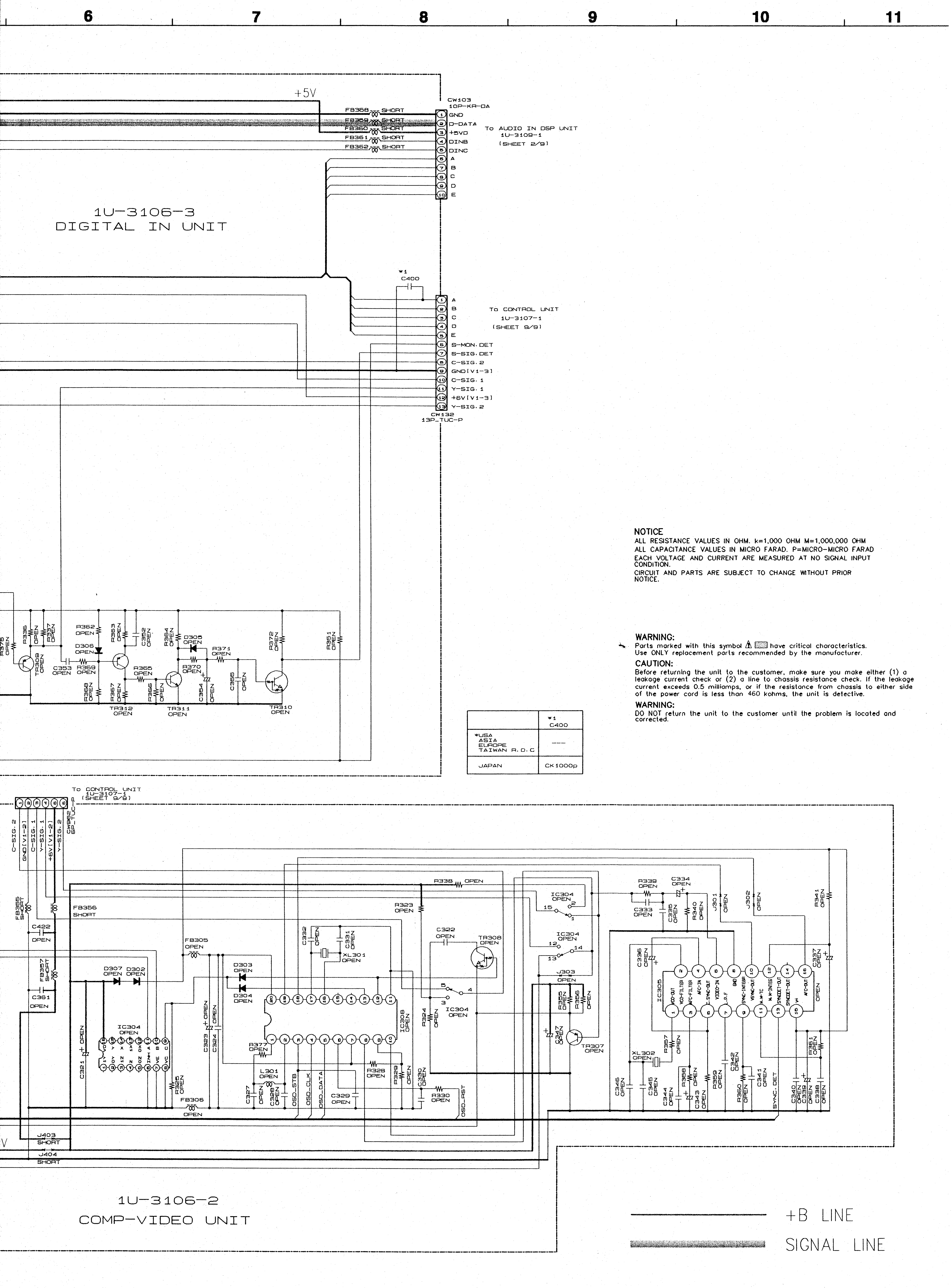
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAM (7/9)

SCHEMATIC DIAGRAM (8/9)


1
2
3
4
5
6
A
B
C
D
E
F
G
H
IC306
GP1F37R
OPTICAL INPUT
JK301
2P_PIN_JACK
COAXIAL-1 INPUT
COAXIAL-2 INPUT
C421 OPEN
FB301 OPEN
J304 SHORT
J159 OPEN
C301 0.1Z
C302 47/16
L303 4.7uH
R387 4.7K
R386 SHORT
C388 SHORT
D301 1SS133
C303 OPEN
L302 2.2uH
R472 OPEN
R388 75
R390 100
C391 33/16
C394 CK0.01Z
D308 1SS133
C389 OPEN
L305 2.2uH
R471 OPEN
R389 75
R391 100
C304 33/16
C393 CK0.01Z
R473 2.2K
R392 47K
C396 22P
R474 2.2K
R393 47K
C395 22P
C307 CK0.01Z
C358 CK0.01Z
C308 10/16
IC307
SN74HCU04N
INVERTER
COAXIAL-1
R475 SHORT
C309 CK0.01Z
C360 CK0.01Z
COAXIAL-2
OPTICAL
IC303
SN74HC151N
MULTIPLEXER
1U-
DIGITA
JK302
JK303
JK304
OPEN
R303 OPEN
R304 OPEN
R301 OPEN
R302 OPEN
R305 OPEN
R306 OPEN
C305 OPEN
C306 OPEN
C390 OPEN
C392 OPEN
C397 OPEN
C398 OPEN
IC301 OPEN
IN1
A.
OUT1
VCC
IN2
B.
OUT2
C.
MONOUT
GND
IN5
IN4
E.
IN3
D.
C319 OPEN
C317 OPEN
R321 OPEN
J305 OPEN
R373 OPEN
R374 OPEN
TR313 OPEN
R307 OPEN
R308 OPEN
C399 OPEN
C310 OPEN
IC302 OPEN
C320 OPEN
A. R435 OPEN A
B. R436 OPEN B
C. R437 OPEN C
D. R438 OPEN D
E. R439 OPEN E
R315 OPEN
R309 OPEN
C311 OPEN
R316 OPEN
R310 OPEN
C312 OPEN
R317 OPEN
R311 OPEN
C313 OPEN
R318 OPEN
R312 OPEN
C314 OPEN
R319 OPEN
R313 OPEN
C315 OPEN
R320 OPEN
R314 OPEN
C316 OPEN
C318 OPEN
R322 OPEN
J307 OPEN
R381 OPEN
R380 OPEN
C350 OPEN
R342 OPEN
R343 OPEN
R344 OPEN
R345 OPEN
TR301 OPEN
C349 OPEN
C351 OPEN
R346 OPEN
R347 OPEN
R348 OPEN
TR302 OPEN
R349 OPEN
TR303 OPEN
R350 OPEN
TR304 OPEN
C348 OPEN
R352 OPEN
R353 OPEN
TR305 OPEN
R354 OPEN
TR306 OPEN
R375 OPEN
R336 OPEN
R337 OPEN
TR309 OPEN
C353 OPEN
R369 OPEN
R362 OPEN
D306 OPEN
R368 OPEN
S-MON. DET
To CONTROL UNIT
1U-3107-1
(SHEET 9/9)
CW122
12P_TUC-P
A
B
C
D
E
S1
S2
SYNC. DET
OSD_RST
OSD_DATA
OSD_CLK
OSD_STB
FB351 OPEN
FB352 OPEN
FB353 OPEN
FB354 OPEN
To CONTR
1U-31
(SHEET
CW362
6P_TUC-P
C-SIG. 2
GND(V1-2)
C-SIG. 1
Y-SIG. 1
+6V(V1-2)
Y-SIG. 2
FB355 SHORT
FB356 SHORT
FB357 SHORT
C422 OPEN
C361 OPEN
C321 OPEN
J403 SHORT
J404 SHORT
+6.6V
C416 CK0.022Z
J401 OPEN
JK401
DVD/VDP
TV/DBS
VCR-1
R401 75
C401 4.7/50
R402 75
C402 4.7/50
R403 75
C403 4.7/50
ST1
R404 75
C404 4.7/50
R422 75
C417 1/50
IC401
BA7625
TR405 OPEN
R423 OPEN
R424 OPEN
C418 10/16
C419 OPEN
C420 OPEN
IC402 OPEN
R430 270K
R431 270K
R432 270K
R433 270K
R434 270K
R425 10K
R426 10K
R427 10K
R428 10K
R429 10K
JK402
VCR-2/ V.AUX
VCR-1 OUT
VCR-2/ V.AUX OUT
JK403
MONITOR OUT
R405 68
R408 10K
C407 470/6.3
R412 200
R416 200
C412 OPEN
C411 10/16
TR402 2PA1015(GR)
R406 68
R409 10K
C408 470/6.3
R413 200
R417 200
C413 10/16
TR403 2PA1015(GR)
R407 68
R410 10K
C409 470/5.3
R414 200
R418 200
C414 OPEN
TR404 2PA1015(GR)
R419 220K
R420 8.2K
C415 100/10
R421 100K
J405 SHORT
J402 OPEN
IC402 OPEN
COMP


6
7
8
9
10
11
+5V
1U–3106–3
DIGITAL IN UNIT
CW103
10P–KR–DA
GND
D–DATA
+5VD
DINB
DINC
A
B
C
D
E
FB358 SHORT
FB359 SHORT
FB360 SHORT
FB361 SHORT
FB362 SHORT
To AUDIO IN DSP UNIT
1U–3109–1
(SHEET 2/9)
*1
C400
To CONTROL UNIT
1U–3107–1
(SHEET 9/9)
S–MON. DET
S–SIG. DET
C–SIG. 2
GND[V1–3]
C–SIG. 1
Y–SIG. 1
+6V[V1–3]
Y–SIG. 2
CW132
13P_TUC–P
TR309 OPEN
TR312 OPEN
TR311 OPEN
TR310 OPEN
R336 OPEN
R337 OPEN
R362 OPEN
R363 OPEN
R364 OPEN
R365 OPEN
R366 OPEN
R367 OPEN
R368 OPEN
R369 OPEN
R370 OPEN
R371 OPEN
R372 OPEN
R351 OPEN
D305 OPEN
D306 OPEN
C352 OPEN
C353 OPEN
C354 OPEN
C355 OPEN
To CONTROL UNIT
1U–3107–1
(SHEET 9/9)
CW962
6P_TUC–P
C–SIG. 2
GND[V1–2]
C–SIG. 1
Y–SIG. 1
+6V[V1–2]
Y–SIG. 2
FB355 SHORT
FB356 SHORT
FB357 SHORT
C422 OPEN
C361 OPEN
C321 OPEN
D307 OPEN
D302 OPEN
IC304 OPEN
FB305 OPEN
FB306 OPEN
R325 OPEN
D303 OPEN
D304 OPEN
C323 OPEN
C324 OPEN
R377 OPEN
L301 OPEN
C327 OPEN
C328 OPEN
OSD_STB
OSD_CLK
OSD_DATA
OSD_RST
C329 OPEN
R328 OPEN
R329 OPEN
C330 OPEN
R330 OPEN
IC308 OPEN
C332 OPEN
C331 OPEN
XL301 OPEN
R324 OPEN
R323 OPEN
R338 OPEN
C322 OPEN
TR308 OPEN
IC304 OPEN
J303 OPEN
R355 OPEN
R356 OPEN
C347 OPEN
TR307 OPEN
J403 SHORT
J404 SHORT
IC305
VCO-OUT
VCO-FILTER
AFC-FILTER
AFC-IN
C.SYNC-OUT
VIDEO-IN
L.P.F
GND
SYNC-INTEGR
VSYNC-OUT
H.M-TC
H.M-INTEG
SYNCDET-OUT
VH
AFC-OUT
R339 OPEN
C334 OPEN
C333 OPEN
C335 OPEN
R340 OPEN
J301 OPEN
J302 OPEN
R341 OPEN
C336 OPEN
C337 OPEN
XL302 OPEN
R357 OPEN
R358 OPEN
R359 OPEN
R360 OPEN
R361 OPEN
C346 OPEN
C345 OPEN
C344 OPEN
C343 OPEN
C342 OPEN
C341 OPEN
C340 OPEN
C339 OPEN
C338 OPEN
SYNC. DET
1U–3106–2
COMP–VIDEO UNIT
+B LINE
SIGNAL LINE

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO–MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

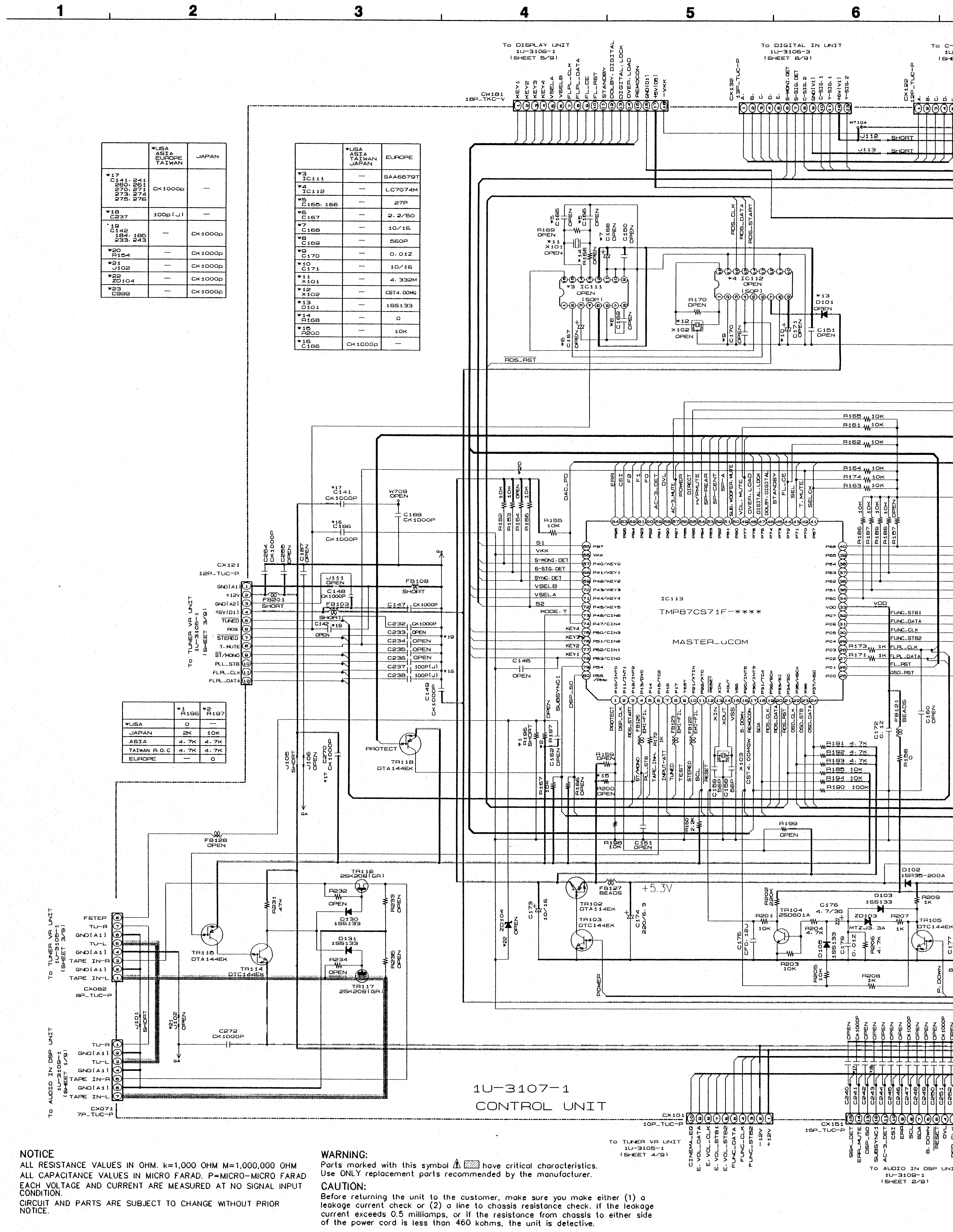
CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

	*1 C400
*USA ASIA EUROPE TAIWAN R.O.C	–––
JAPAN	CK1000p

SCHEMATIC DIAGRAM (8/9)

SCHEMATIC DIAGRAM (9/9)


1
2
3
4
5
6
To DISPLAY UNIT 1U-3106-1 (SHEET 5/9)
CW181 18P_TKC-V
KEY1
KEY2
KEY3
KEY4
VSELA
VSELB
FLPL_CLK
FLPL_DATA
FL_CE
FL_RST
STANDBY
DOLBY. DIGITAL
DIGITAL. LOCK
OVER. LOAD
REMOCON
GND(D1)
+5V(D5)
-VKK
To DIGITAL IN UNIT 1U-3106-3 (SHEET 8/9)
CX132 13P_TUC-P
S-MONI. DET
S-SIG. DET
C-SIG. 2
GND(V1)
C-SIG. 1
Y-SIG. 1
+6V(V1)
Y-SIG. 2
CX122 12P_TUC-P
J112 SHORT
J113 SHORT
W710A
IC111
IC112
(SOP)
OPEN
X101
X102
R169 OPEN
R170 OPEN
C165
C166
C167
C168
C169
C170
C171
C150 OPEN
C151 OPEN
D101 OPEN
R168
RDS_CLK
RDS_DATA
RDS_START
RDS_RST
To TUNER VR UNIT 1U-3105-1 (SHEET 3/9)
CX121 12P_TUC-P
GND(A1)
+12V
GND(A2)
+6V(D1)
TUNED
RDS
STEREO
T. MUTE
ST/MONO
PLL_STB
FLPL_CLK
FLPL_DATA
C254 CK1000P
C255 OPEN
C187 OPEN
FB201 SHORT
J111 OPEN
C148 CK1000P
FB103 SHORT
C142
FB108 SHORT
C147 CK1000P
C232 CK1000P
C233 OPEN
C234 OPEN
C235 OPEN
C236 OPEN
C237 100P(J)
C238 100P(J)
C141 CK1000P
C186 CK1000P
W709 OPEN
C188 CK1000P
C149 CK1000P
J105 SHORT
J106 OPEN
C270 CK1000P
PROTECT
TR118 DTA144EK
IC113
TMP87CS71F-****
MASTER_uCOM
R152 10K
R153 10K
R154 OPEN
R156 10K
R155 10K
DAC_PD
S1
VKK
S-MONI. DET
S-SIG. DET
SYNC. DET
VSELB
VSELA
S2
MODE. T
ERR
CSI
F2
F1
F0
AC-3_DET
OVL
AC-3_MUTE
POWER
DIRECT
H/PMUTE
SP-REAR
SP-CENT
SP-A
SUB. WOOFER. MUTE
VOL. MUTE
OVER. LOAD
DIGITAL. LOCK
DOLBY. DIGITAL
STANDBY
FL_CE
SEL
T. MUTE
SELCK
R165 10K
R161 10K
R162 10K
R164 10K
R174 10K
R163 10K
R186 10K
R187 10K
R185 10K
R188 10K
R157 OPEN
VDD
FUNC_STB1
FUNC_DATA
FUNC_CLK
FUNC_STB2
FLPL_CLK
FLPL_DATA
FL_RST
OSD_RST
R173 1K
R171 1K
C146 OPEN
SUBSYNC1
DSP_SO
R196 SHORT
R197
C162 OPEN
R167 10K
R166 OPEN
R200 OPEN
PROTECT
DSP_CLK
RDS_START
ST/MONO
PLL_STB
TAPE_INH
INPUT-ATT
TUNED
TEST
STEREO
SCL
RESET
XIN
XOUT
VSS
B. DOWN
REMOCON
SDA
RDS_CLK
RDS_DATA
RDS_RST
OSD_CLK
OSD_STB
OSD_DATA
FB126 EMI-FIL
R172 1K
FB123 EMI-FIL
FB122 EMI-FIL
C159 56P
C158 56P
X103 CST4.00MGW
R150 2.2K
R198 10K
C161 OPEN
R199 OPEN
R191 4.7K
R192 4.7K
R193 4.7K
R195 10K
R194 10K
R190 100K
C172 0.1Z
FB121 BEADS
R158 0
C160 OPEN
D102 1SR35-200A
FB128 OPEN
TR115 DTA144EK
TR114 DTC144EK
R231 47K
TR116 2SK208(GR)
R232 OPEN
D130 1SS133
D131 1SS133
R234 OPEN
TR117 2SK209(GR)
R233 OPEN
R235 OPEN
ZD104 OPEN
C173 10/16
TR102 DTA114EK
TR103 DTC144EK
FB127 BEADS
+5.3V
C174 220/6.3
POWER
TR104 2SD601A
R202 220K
R201 10K
C175 CF0. 12J
R203 10K
R204 4.7K
R205 10K
D105 1SS133
C179 0.01Z
C176 4.7/35
ZD103 MTZJ3. 3A
R206 4.7K
D103 1SS133
R207 1K
R208 1K
R209 1K
TR105 DTC144EK
P. DOWN
To TUNER VR UNIT 1U-3105-1 (SHEET 3/9)
F6TEP
TU-R
GND(A1)
TU-L
GND(A1)
TAPE IN-R
GND(A1)
TAPE IN-L
CX082 8P_TUC-P
J101 SHORT
J102 OPEN
C272 CK1000P
To AUDIO IN DSP UNIT 1U-3109-1 (SHEET 1/9)
CX071 7P_TUC-P
1U-3107-1
CONTROL UNIT
CX101 10P_TUC-P
CINEMA_EQ
E. VOL_DATA
E. VOL_CLK
E. VOL_STB1
E. VOL_STB2
FUNC_DATA
FUNC_CLK
FUNC_STB2
-12V
+12V
To TUNER VR UNIT 1U-3105-1 (SHEET 4/9)
CX151 15P_TUC-P
96K_DET
ERR_MUTE
DSP_SO
SUBSYNC1
AC-3_DET
CSI
ERR
SCL
SDA
B. DOWN
RESET
OVL
C240
C241
C242
C243
C244
C245
C246
C247
C248
C249
C250
C251
C252
To AUDIO IN DSP UNIT 1U-3109-1 (SHEET 2/9)

	*USA ASIA EUROPE TAIWAN	JAPAN
*17 C141. 241 260. 261 270. 271 273. 274 275. 276	CK1000p	—
*18 C237	100p(J)	—
*19 C142 184. 185 233. 243	—	CK1000p
*20 R154	—	CK1000p
*21 J102	—	CK1000p
*22 ZD104	—	CK1000p
*23 C999	—	CK1000p

	*USA ASIA TAIWAN JAPAN	EUROPE
*3 IC111	—	SAA6579T
*4 IC112	—	LC7074M
*5 C165, 166	—	27P
*6 C167	—	2.2/50
*7 C168	—	10/16
*8 C169	—	560P
*9 C170	—	0.01Z
*10 C171	—	10/16
*11 X101	—	4.332M
*12 X102	—	CST4.00MG
*13 D101	—	1SS133
*14 R168	—	0
*15 R200	—	10K
*16 C186	CK1000p	—

	*1 R196	*2 R197
*USA	0	—
JAPAN	2K	10K
ASIA	4.7K	4.7K
TAIWAN R.O.C	4.7K	4.7K
EUROPE	—	0

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

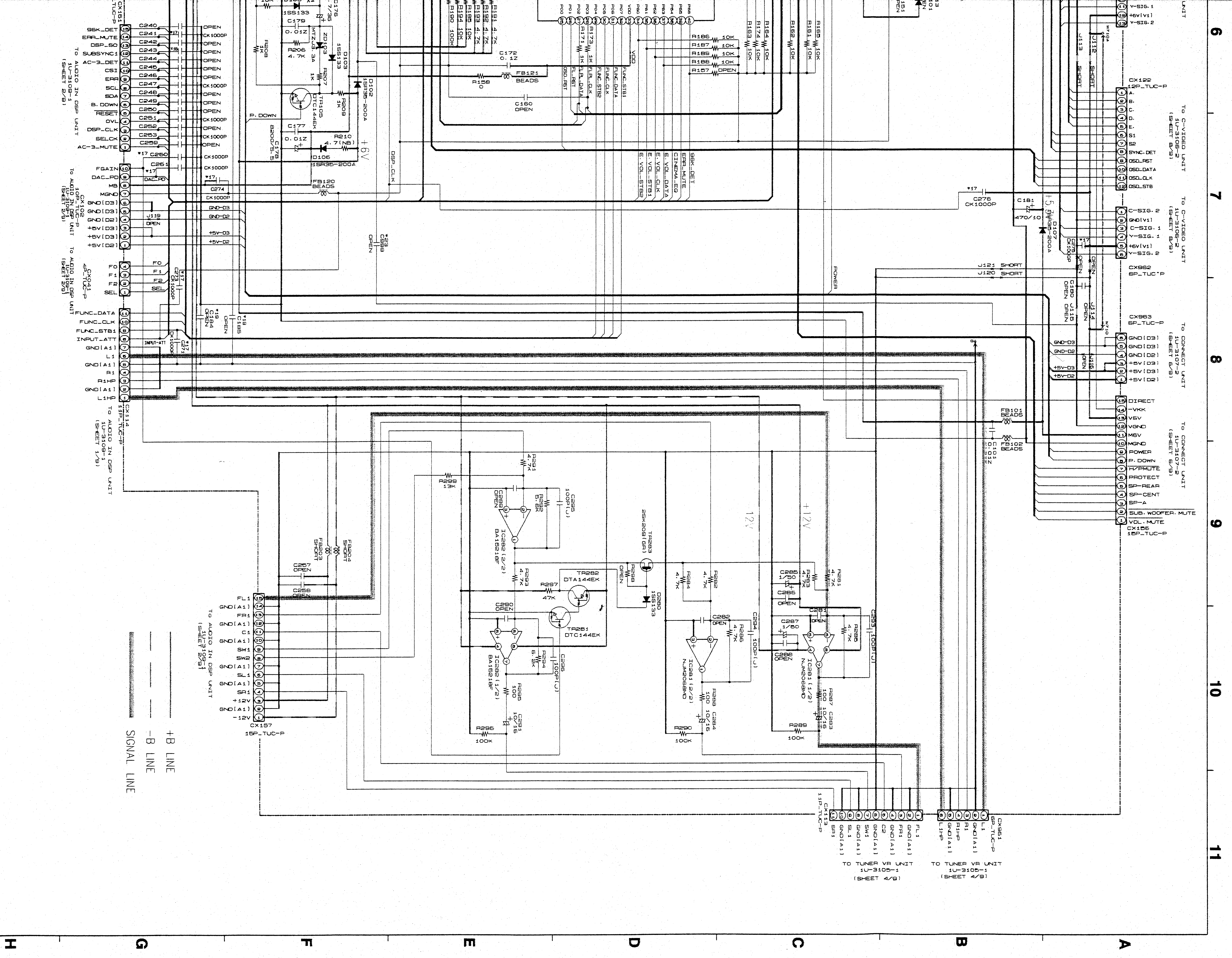
Parts marked with this symbol ⚠ ▨ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.


CX161
96K_DET
ERR_MUTE
DSP_SO
SUBSYNC1
AC-3_DET
CSI
ERR
SCL
SDA
B. DOWN
RESET
OVL
DSP_CLK
SELCK
AC-3_MUTE
To AUDIO IN DSP UNIT 1U-3109-1 (SHEET 2/9)
FGAIN
DAC_PD
MB
MGND
GND(D3)
GND(D2)
+5V(D3)
+5V(D2)
CX102 10P_TUC-P
To AUDIO IN DSP UNIT 1U-3109-1 (SHEET 2/9)
J119 OPEN
F0
F1
F2
SEL
CX041 4P_TUC-P
To AUDIO IN DSP UNIT 1U-3109-1 (SHEET 2/9)
FUNC_DATA
FUNC_CLK
FUNC_STB1
INPUT_ATT
GND(A1)
L1
R1
R1HP
L1HP
CX114 11P_TUC-P
To AUDIO IN DSP UNIT 1U-3109-1 (SHEET 1/9)
FB120 BEADS
FB121 BEADS
TR105 DTC144EK
D102 1SR35-200A
D106 1SR35-200A
D103 1SS133
P. DOWN
DSP_CLK
+6V
R186 10K
R187 10K
R185 10K
R188 10K
R157 OPEN
C172 0.1Z
R158 0
C160 OPEN
FLD_DATA
FLD_CLK
FUNC_STB2
FUNC_CLK
FUNC_DATA
FUNC_STB1
OSD_RST
96K_DET
ERR_MUTE
CINEMA_EQ
E.VOL_DATA
E.VOL_CLK
E.VOL_STB1
E.VOL_STB2
POWER
C276 CK1000P
C181 470/10
D107 1SR35-200A
J121 SHORT
J120 SHORT
CX122 12P_TUC-P
A.
B.
C.
D.
E.
S1
S2
SYNC.DET
OSD_RST
OSD_DATA
OSD_CLK
OSD_STB
To C-VIDEO UNIT 1U-3106-2 (SHEET 8/9)
C-SIG. 2
GND(V1)
C-SIG. 1
Y-SIG. 1
+6V(V1)
Y-SIG. 2
CX962 6P_TUC-P
To C-VIDEO UNIT 1U-3106-2 (SHEET 8/9)
CX963 6P_TUC-P
GND(D3)
GND(D2)
+5V(D3)
+5V(D2)
To CONNECT UNIT 1U-3107-2 (SHEET 6/9)
DIRECT
-VKK
V5V
VGND
M6V
MGND
POWER
P. DOWN
H/PMUTE
PROTECT
SP-REAR
SP-CENT
SP-A
SUB. WOOFER. MUTE
VOL. MUTE
CX156 15P_TUC-P
To CONNECT UNIT 1U-3107-2 (SHEET 6/9)
FB101 BEADS
FB102 BEADS
C101 0.01Z
R299 13K
R291 4.7K
R292 6.8K
C295 100P(J)
IC282 (2/2) BA15218F
IC282 (1/2) BA15218F
TR283 2SK209(GR)
TR282 DTA144EK
TR281 DTC144EK
R297 47K
D280 1SS133
R296 100K
R290 100K
R289 100K
IC281 (2/2) NJM2068MD
IC281 (1/2) NJM2068MD
C294 100P(J)
C293 100P(J)
12V
+12V
FB203 SHORT
FB204 SHORT
FL1
GND(A1)
FR1
C1
SW1
SW2
SL1
SR1
+12V
-12V
CX157 15P_TUC-P
To AUDIO IN DSP UNIT 1U-3109-1 (SHEET 2/9)
CX113 11P_TUC-P
CX961 8P_TUC-P
L1HP
R1HP
R1
L1
TO TUNER VR UNIT 1U-3105-1 (SHEET 4/9)
TO TUNER VR UNIT 1U-3105-1 (SHEET 4/9)
+B LINE
-B LINE
SIGNAL LINE
6
7
8
9
10
11
H
G
F
E
D
C
B
A

SCHEMATIC DIAGRAM (9/9)

DENON

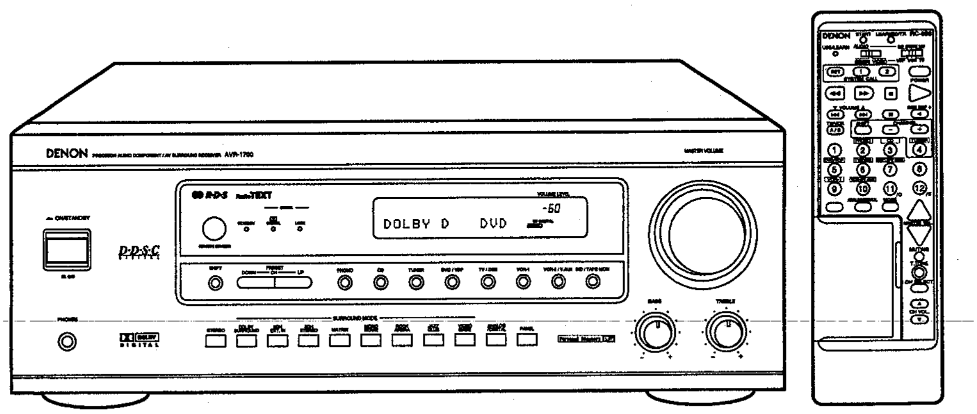
Hi-Fi AV Surround Receiver

For Europe Model

SERVICE MANUAL

MODEL AVR-1700

AV SURROUND RECEIVER



This service manual is supplement for Europe model. For servicing, refer to the service manual of AVR-1700 (For U.S.A. model) already issued at the same time.

— TABLE OF CONTENTS —

SPECIFICATIONS 2
ADDITIONAL SEMICONDUCTORS 3
NOTE FOR PARTS LIST 4
ADDENDUM PARTS LIST OF PRINTED WIRING BOARD .... 5~7
SCHEMATIC DIAGRAM 7
EXPLODED VIEW OF CHASSIS AND CABINET 8
ADDENDUM PARTS LIST OF EXPLODED VIEW 9

- **Some illustrations using in this service manual are slightly different from the actual set.**

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

● Audio section

(Power amplifier)

Rated output:	Front:	70 W + 70 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05% T.H.D.)
		100 W + 100 W	(6 Ω/ohms, 1 kHz with 0.7% T.H.D.)
	Center:	70 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05% T.H.D.)
		100 W	(6 Ω/ohms, 1 kHz with 0.7% T.H.D.)
	Surround:	70 W + 70 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05% T.H.D.)
		100 W + 100 W	(6 Ω/ohms, 1 kHz with 0.7% T.H.D.)
Dynamic Power:	90 W x 2 ch (8 Ω/ohms)		
	150 W x 2 ch (4 Ω/ohms)		
	180 W x 2 ch (2 Ω/ohms)		
Output terminals:	Front/Center:	A or B or Bi-wiring	6 to 16 Ω/ohms
		A + B	12 to 16 Ω/ohms
	Surround:	6 to 16 Ω/ohms	

(Analog)

LINE input - PRE OUT	
Input sensitivity/input impedance:	200 mV/47 kΩ/kohms
Frequency response:	10 Hz ~ 50 kHz: +1, –3 dB
S/N ratio:	96 dB (IHF-A weighted)
Total harmonic distortion:	0.05% (20 Hz ~ 20 kHz)
Rated output:	1.2 V
PHONO input - REC OUT	
Input sensitivity/input impedance:	2.5 mV/47 kΩ/kohms
RIAA deviation:	±1 dB (20 Hz ~ 20 kHz)
S/N ratio:	74 dB (IHF-A weighted, with 5 mV input)
Total harmonic distortion:	0.03% (1 kHz, 3 V)
Rated output/Maximum output:	150 mV/7 V
Maximum headphones output:	27 mW (8 Ω/ohms)

(Digital)

D/A output	
Rated output:	2 V (at 0 dB playback)
Total harmonic distortion:	0.01% (1 kHz, at 0 dB)
S/N ratio:	102 dB (IHF-A weighted)
Dynamic range:	93 dB
Digital input:	Format - Digital audio interface

● Video section

(Standard video jacks)

Input/output level and impedance:	1 V p-p, 75 Ω/ohms
Frequency response:	5 Hz ~ 10 MHz +1, –3 dB

● Tuner section

	[FM] (note: µV at 75 Ω/ohms, 0 dBf = 1 x 10^{-15}W)		**[AM]**
Receiving range:	87.50 MHz ~ 108.00 MHz		522 kHz ~ 1611 kHz
Usable sensitivity:	1.0 µV (11.2 dBf)		
50 dB quieting sensitivity:	MONO	1.6 µV (15.3 dBf)	
	STEREO	23 µV (38.5 dBf)	
S/N ratio:	MONO	80 dB (IHF-A weighted)	
	STEREO	75 dB (IHF-A weighted)	
Total harmonic distortion:	MONO	0.15% (1 kHz)	
	STEREO	0.3% (1 kHz)	

● General

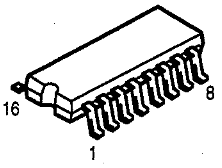
Power supply:	AC 230 V, 50 Hz
Power consumption:	230 W
Maximum external dimensions:	434(W) x 161(H) x 416(D) mm (17-3/32" x 6-11/32" x 16-3/8")
Weight:	10.9 kg (24 lbs)

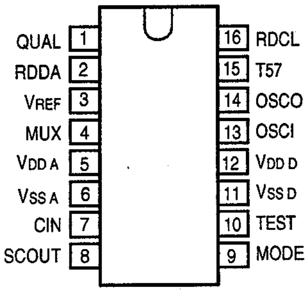
● Remote control unit (RC-856)

Batteries:	R6P/AA Type (two batteries)
External dimensions:	70(W) x 215(H) x 19(D) mm (2-3/3" x 8-15/32" x 3/4")
Weight:	180 g (Approx. 6 oz) (including batteries)

ADDITIONAL SEMICONDUCTORS

SAA6579T (CO: IC111)

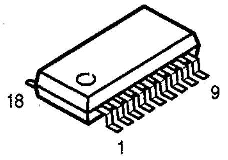


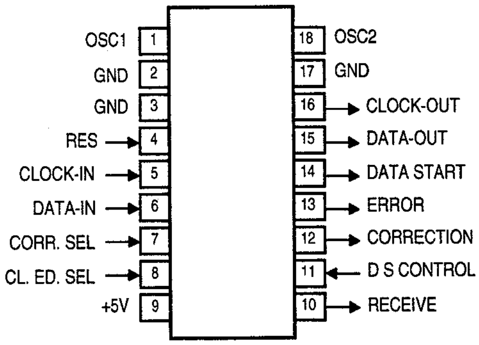

QUAL 1
RDDA 2
VREF 3
MUX 4
VDD A 5
VSS A 6
CIN 7
SCOUT 8
16 RDCL
15 T57
14 OSCO
13 OSCI
12 VDD D
11 VSS D
10 TEST
9 MODE

SAA6579T Terminal Function

Pin No.	Symbol	Function
1	QUAL	Quality indication output.
2	RDDA	RDS data output.
3	V_{REF}	Reference voltage output (0.5 $V_{DD\,A}$).
4	MUX	Multiplex signal input.
5	$V_{DD\,A}$	+5V power supply for analog part.
6	$V_{SS\,A}$	Ground for analog part (0V).
7	CIN	Subcarrier input to comparator.
8	SCOUT	Subcarrier ouput of reconstruction filter.
9	MODE	Oscillation mode/test control input.
10	TEST	Test enable input.
11	$V_{SS\,D}$	Ground for digital part (0V).
12	$V_{DD\,D}$	+5V power supply for digital part.
13	OSCI	Oscillator input.
14	OSCO	Oscillator output.
15	T57	57kHz clock signal output.
16	RDCL	RDS clock output.

LC7074M (CO: IC112)




OSC1 1
GND 2
GND 3
RES 4
CLOCK-IN 5
DATA-IN 6
CORR. SEL 7
CL. ED. SEL 8
+5V 9
18 OSC2
17 GND
16 CLOCK-OUT
15 DATA-OUT
14 DATA START
13 ERROR
12 CORRECTION
11 D S CONTROL
10 RECEIVE

NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.:	RN	14K	2E	182	G	FR
	Type	Shape and performance	Power	Resistance	Allowable error	Others

RD : Carbon	2B : 1/8W	F : ±1%	P : Pulse-resistant type
RC : Composition	2E : 1/4W	G : ±2%	NL : Low noise type
RS : Metal oxide film	2H : 1/2W	J : ±5%	NB : Non-burning type
RW : Winding	3A : 1W	K : ±10%	FR : Fuse-resistor
RN : Metal film	3D : 2W	M : ±20%	F : Lead wire forming
RK : Metal mixture	3F : 3W		
	3H : 5W		

*** Resistance**

1 8 2 ⇒ 1800 ohm = 1.8 kohm
Indicates number of zeros after effective number.
2-digit effective number.

- Units: ohm

1 R 2 ⇒ 1.2 ohm
1-digit effective number.
2-digit effective number, decimal point indicated by R.

- Units: ohm

● Capacitors

Ex.:	CE	04W	1H	2R2	M	BP
	Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others

CE : Aluminum foil electrolytic	0J : 6.3V	F : ±1%	HS : High stability type
CA : Aluminum solid electrolytic	1A : 10V	G : ±2%	BP : Non-polar type
CS : Tantalum electrolytic	1C : 16V	J : ±5%	HR : Ripple-resistant type
CQ : Film	1E : 25V	K : ±10%	DL : For change and discharge
CK : Ceramic	1V : 35V	M : ±20%	HF : For assuring high frequency
CC : Ceramic	1H : 50V	Z : +80% −20%	U : UL part
CP : Oil	2A : 100V		C : CSA part
CM : Mica	2B : 125V	P : +100% −0%	W : UL-CSA type
CF : Metallized	2C : 160V		F : Lead wire forming
CH : Metallized	2D : 200V	C : ±0.25pF	
	2E : 250V	D : ±0.5pF	
	2H : 500V	= : Others	
	2J : 630V		

*** Capacity (electrolyte only)**

2 2 2 ⇒ 2200μF
Indicates number of zeros after effective number.
2-digit effective number.

- Units: μF.

2 R 2 ⇒ 2.2μF
1-digit effective number.
2-digit effective number, decimal point indicated by R.

- Units: μF.

*** Capacity (except electrolyte)**

2 2 2 ⇒ 2200pF=0.0022μF
(More than 2)—Indicates number of zeros after effective number.
2-digit effective number.

- Units: μF.

2 2 1 ⇒ 220pF
(0 or 1)—— Indicates number of zeros after effective number.
2-digit effective number.

- Units: pF.

- When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

ADDENDUM PARTS LIST OF P.W.B. UNIT ASS'Y

1U-3105 TUNER AMP. UNIT ASS'Y

Note: All parts, except for the following, are the same that of used for AVR-1700 U.S.A. model.

Ref. No.	U.S.A. Model		Europe Model	
	Part No.	Part Name	Part No.	Part Name
	1U-3105F	Tuner amp. unit ass'y	1U-3105G	Tuner amp. unit ass'y
IC501	216 0102 008	Front end	216 9013 004	FM front end (U) S
TR501	—	—	275 0074 902	FET 2SK211-Y/GR
R502	—	—	247 0018 905	Carbon chip 0 ohm 1/10W±10%
R515	247 0005 905	Carbon chip 100 ohm 1/10W ±5%	—	—
R516	247 0007 945	Carbon chip 1 kohm 1/10W ±5%	247 0006 920	Carbon chip 330 ohm 1/10W ±5%
R517	—	—	247 0006 920	Carbon chip 330 ohm 1/10W ±5%
R535	247 0010 945	Carbon chip 18 kohm 1/10W ±5%	247 0011 928	Carbon chip 39 kohm 1/10W ±5%
R536	247 0018 905	Carbon chip 0 ohm 1/10W ±10%	247 0008 944	Carbon chip 2.7 kohm 1/10W ±5%
R544,545	247 0012 927	Carbon chip 100 kohm 1/10W ±5%	247 0012 969	Carbon chip 150 kohm 1/10W±5%
R555,556	247 0009 927	Carbon chip 5.6 kohm 1/10W ±5%	247 0008 960	Carbon chip 3.3 kohm 1/10W ±5%
R575,576	247 0012 943	Carbon chip 120 kohm 1/10W ±5%	247 0012 998	Carbon chip 200 kohm 1/10W ±5%
R579~581	247 0018 905	Carbon chip 0 ohm 1/10W ±10%	—	—
R645	—	—	247 0009 985	Carbon chip 10 kohm 1/10W ±5%
R646	—	—	247 0009 927	Carbon chip 5.6 kohm 1/10W ±5%
R705,706	247 0006 962	Carbon chip 470 ohm 1/10W ±5%	247 0005 905	Carbon chip 100 ohm 1/10W ±5%
R721,722	247 0006 962	Carbon chip 470 ohm 1/10W ±5%	247 0005 905	Carbon chip 100 ohm 1/10W ±5%
R737,738	247 0006 962	Carbon chip 470 ohm 1/10W ±5%	247 0005 905	Carbon chip 100 ohm 1/10W ±5%
R793~798	247 0018 905	Carbon chip 0 ohm 1/10W ±10%	247 0006 962	Carbon chip 470 ohm 1/10W ±5%
C405,406	253 4537 924	Ceramic 33 pF/50V ±5%	253 1179 945	Ceramic 220 pF/50V ±10%
C409,410	254 4254 938	Electrolytic 47 μF/16V ±20%	254 4254 941	Electrolytic 100 μF/16V ±20%
C415,416	254 4254 912	Electrolytic 22 μF/16V ±20%	254 4254 938	Electrolytic 47 μF/16V ±20%
C435,436	253 4537 924	Ceramic 33 pF/50V ±5%	253 1179 945	Ceramic 220 pF/50V ±10%
C462	253 4537 924	Ceramic 33 pF/50V ±5%	253 1179 945	Ceramic 220 pF/50V ±10%
C518	—	—	257 0005 960	Ceramic chip 270 pF/50V ±5%
C519	—	—	257 0004 961	Ceramic chip 100 pF/50V ±5%
C527	254 4260 948	Electrolytic 1 μF/50V ±20%	254 4260 922	Electrolytic 0.33 μF/50V ±20%
C536	257 0004 961	Ceramic chip 100 pF/50V ±5%	—	—
C537	—	—	254 4254 912	Electrolytic 22 μF/16V ±20%
C539,540	257 0006 972	Ceramic chip 750 pF/50V ±5%	257 0005 986	Ceramic chip 330 pF/50V ±5%
C564,565	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
C701,702	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
C715,716	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
C729,730	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
CF501	261 0135 907	Ceramic filter MA8	261 0146 006	Ceramic filter FMCFSK107M2-A
CF502	261 0136 906	Ceramic filter MS2G	261 0146 006	Ceramic filter FMCFSK107M2-A
LF501	—	—	232 9010 009	Antibirdie filter
LF503,504	—	—	232 0085 004	LPF

1U-3106 DISPLAY VIDEO UNIT ASS'Y

Ref. No.	U.S.A. Model		Europe Model	
	Part No.	Part Name	Part No.	Part Name
	1U-3106F	Display video unit ass'y	1U-3106G	Display video unit ass'y
C205,206	253 4537 924	Ceramic 33 pF/50V ±5%	253 1179 987	Ceramic 470 pF/50V ±10%

1U-3107 CONTROL UNIT ASS'Y

Ref. No.	U.S.A. Model		Europe Model	
	Part No.	Part Name	Part No.	Part Name
	1U-3107F	Control unit ass'y	1U-3107G	Control unit ass'y
IC111	—	—	262 1701 906	IC SAA6579T
IC112	—	—	262 1929 908	IC LC7074M-TE-R
D101	—	—	276 0401 905	Diode 1SS133
R168	—	—	247 0018 905	Carbon chip 0 ohm 1/10W ±10%
R196	—	Short	—	Open
R197	—	Open	—	Short
R200	—	—	247 0009 985	Carbon chip 10 kohm 1/10W ±5%
C165,166	—	—	257 0003 920	Ceramic chip 27 pF/50V ±5%
C167	—	—	254 4260 951	Electrolytic 2.2 µF/50V ±20%
C168	—	—	254 4254 909	Electrolytic 10 µF/16V ±20%
C169	—	—	257 0006 943	Ceramic chip 560 pF/50V ±5%
C170	—	—	257 0012 966	Ceramic chip 0.01 µF/50V +80%, –20%
C171	—	—	254 4254 909	Electrolytic 10 µF/16V ±20%
C186	257 0008 983	Ceramic chip 1000 pF/50V±5%	—	—
X101	—	—	399 0178 007	Crystal 4.332 MHz
X102	—	—	399 0191 903	Ceramic 4.00 MHz

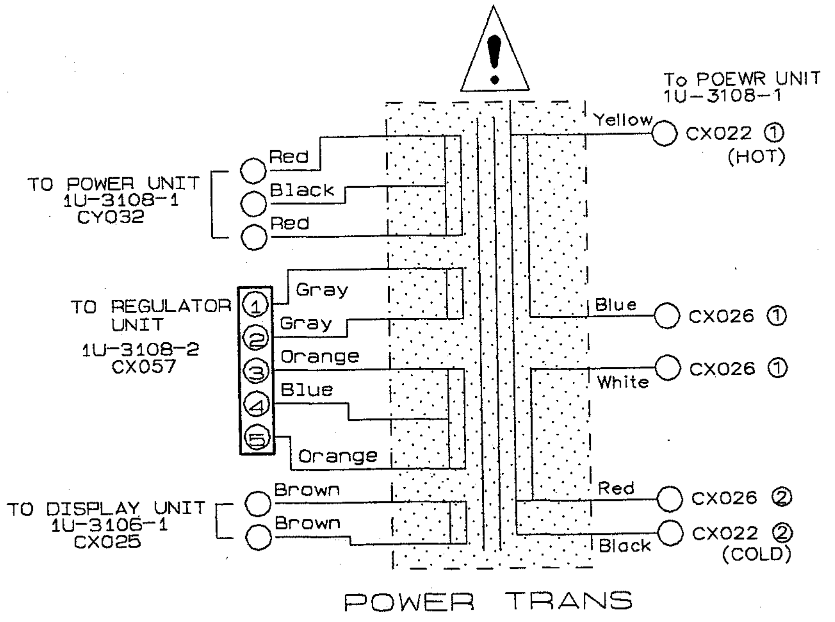
1U-3109 AUDIO IN DSP UNIT ASS'Y

Ref. No.	U.S.A. Model		Europe Model	
	Part No.	Part Name	Part No.	Part Name
	1U-3109F	Audio in DSP unit ass'y	1U-3109G	Audio in DSP unit ass'y
R601,602	247 0018 905	Carbon chip 0 ohm 1/10W ±10%	247 0007 974	Carbon chip 1.3 kohm 1/10W ±5%
C509~512	—	—	257 0004 961	Ceramic chip 100 pF/50V ±5%
C617~626	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
C661,662	—	—	257 0004 961	Ceramic chip 100 pF/50V ±5%
C887	—	—	257 0008 983	Ceramic chip 1000 pF/50V ±5%
C888,889	257 0008 983	Ceramic chip 1000 pF/50V ±5%	—	—
C895	257 0014 935	Ceramic chip 0.1 µF/25V	—	—
C945	—	—	257 0004 987	Ceramic chip 120 pF/50V ±5%
C996	—	—	247 0018 905	Carbon chip 0 ohm 1/10W ±10%
LF601,602	—	—	235 9003 002	FTZ choke coil
W702,703	—	—	001 0025 017	Vinyl wire
—	—	—	414 0851 005	Shield bracket
—	—	—	203 0312 038	Wire ass.

1U-3108 POWER AMP. UNIT ASS'Y

Ref. No.	U.S.A. Model		Europe Model		
	Part No.	Part Name	Part No.	Part Name	Remarks
	1U-3108F	Power amp. unit ass'y	1U-3108G	Power amp. unit ass'y	
R734	242 2009 001	Composition 2.2 Mohm 1/2W ±10%	—	—	
C629~632	—	—	255 1265 936	Mylar 0.01 µF/50V	
C649	—	—	255 1265 936	Mylar 0.01 µF/50V	
C662	—	—	255 1265 936	Mylar 0.01 µF/50V	
⚠ AC501	203 3976 002	AC outlet (2P)	—	—	
CX23	—	—	205 0581 001	2P VH connector base	
CX26	—	—	205 0348 024	2P wrapping terminal	
⚠ F1	206 1046 001	Fuse 6.3A UL 20mm	206 1015 074	Fuse 3.15A	
⚠ F8	206 1046 014	Fuse 8A	206 1015 032	Fuse 2.5A	
⚠ F11,12	206 1039 076	Fuse 2.5A	206 1015 032	Fuse 2.5A	
⚠ F13	206 1039 076	Fuse 2.5A	206 1015 032	Fuse 2.5A	
⚠ T501	233 6073 000	Power trans. (Mini)-EU	233 6058 025	Power trans. (Mini)-E2	
	—	—	415 0299 000	Condenser cover	for C684
	—	—	513 2585 045	Fuse label	for F1
	—	—	513 2585 074	Fuse label	for F8,11,12,13

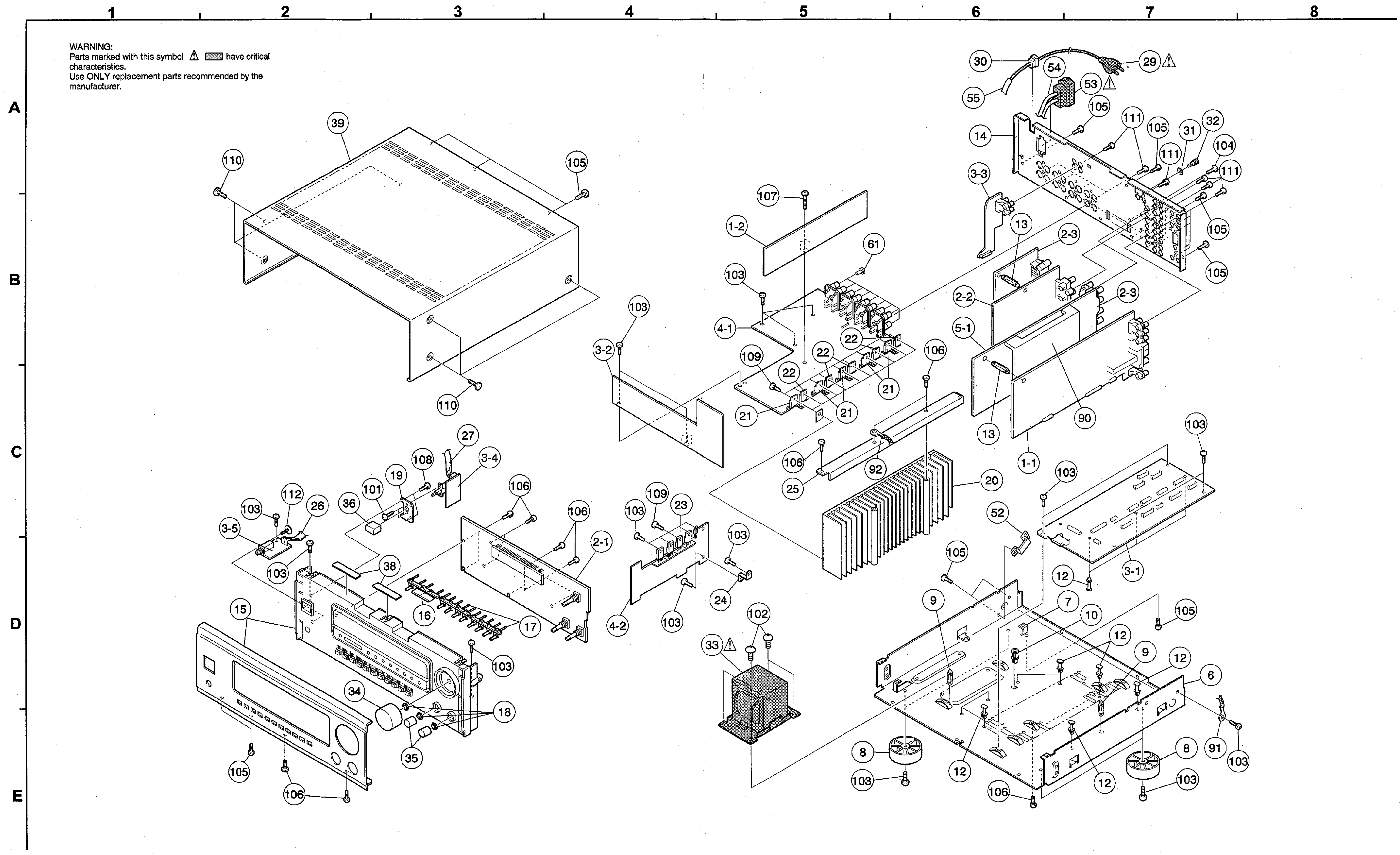
SCHEMATIC DIAGRAM (POWER TRANS)



TO POWER UNIT
1U-3108-1
CY032
Red
Black
Red
TO REGULATOR UNIT
1U-3108-2
CX057
①
②
③
④
⑤
Gray
Gray
Orange
Blue
Orange
TO DISPLAY UNIT
1U-3106-1
CX025
Brown
Brown
To POEWR UNIT
1U-3108-1
Yellow
CX022 ①
(HOT)
Blue
CX026 ①
White
CX026 ①
Red
CX026 ②
Black
CX022 ②
(COLD)
POWER TRANS

EXPLODED VIEW OF CHASSIS AND CABINET

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.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4-1
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2-3
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105
2-2
2-3
5-1
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90
1-1
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3-4
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36
112
26
103
3-5
103
106
106
2-1
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4-2
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102
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106

ADDENDUM PARTS LIST OF EXPLODED VIEW

Note: All parts, except for the following, are the same that of used for AVR-1700 U.S.A. model.

Ref. No.	Part Name	U.S.A. Model		Europe Model			
		Black Model		Black Model		Gold Model	
		Part No.	Q'ty	Part No.	Q'ty	Part No.	Q'ty
14	Back panel	105 1302 002		105 1302 028		105 1302 028	
15	Inner panel ass'y	146 2065 077		146 2065 093		146 2124 002	
16	Tuning knob	113 1804 006		113 1804 006		113 1804 019	
17	Function knob	113 1805 005		113 1805 005		113 1805 018	
⚠ 29	AC cord	206 2161 008		206 2063 009		206 2063 009	
⚠ 33	Power trans.	233 6284 006		233 6287 003		233 6287 003	
34	VR. knob ass'y	112 0744 164		112 0744 164		112 0744 177	
35	Knob (MARU)	112 0685 100		112 0685 100		112 0685 113	
36	P. knob (P) ass'y	113 9213 000		113 9213 000		113 9213 039	
39	Top cover	102 0598 009		102 0598 009		102 0598 012	
52	Side bracket	—		412 2955 107		412 2955 107	
⚠ 53	AC outlet	203 3976 002		203 3942 007		203 3942 007	
54	3P VH connector cord	—		203 5177 016		203 5177 016	
55	UL tube (8.3)	—		415 0546 070		415 0546 070	
56	Caution label	513 3156 004		—		—	
61	Push rivet	—	—	477 0096 007	16	477 0096 007	16
90	Shield plate (DSP)	—	—	414 0851 005	1	414 0851 005	1
91	Amisen Assem	—	—	203 0312 012	1	203 0312 012	1
92	Amisen Assem	—	—	203 0312 038	1	203 0312 038	1
110	Screw 4 x 8 CBTS(B)-B-3P	473 8064 000		473 8064 000		—	
110	Screw 4 x 8 CBTS(B)-N-3P	—		—		473 8064 013	
205	Instruction manual	511 3355 003		511 3397 003		511 3397 003	
208	RC-855 remocon unit	399 0509 003		—		—	
208	RC-856 remocon unit	—		399 0509 016		399 0509 016	
214	DEL warranty home	515 0817 009	1	—	—	—	—
215	UPC label	517 1382 005		—		—	
215	E2 POS label	—		517 1356 073		517 1356 086	
216	Color label (gold)	—	—	—	—	513 9111 001	2

DENON

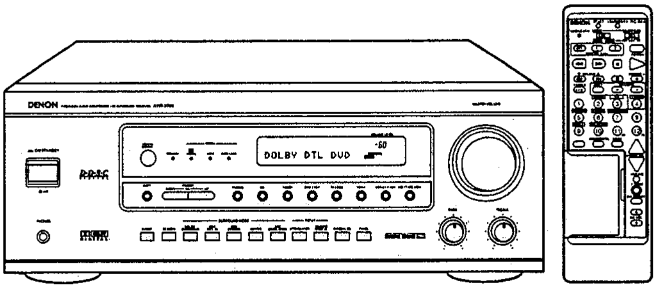
DENO -00446

Hi-Fi AV Surround Receiver

SERVICE MANUAL

MODEL AVR-2700

AV SURROUND RECEIVER



— TABLE OF CONTENTS —

WIRE ARRANGEMENT 2
DISASSEMBLY 3, 4
BLOCK DIAGRAM 5
LEVEL DIAGRAM 6
ADJUSTMENT .... 6~8
FUNCTION OF NEW CIRCUIT .... 9~11
SEMICONDUCTORS .... 12~28
PRINTED WIRING BOARD .... 29~33
NOTE FOR PARTS LIST 34
PARTS LIST OF P.W.B. UNIT ASS'Y .... 34~45
EXPLODED VIEW OF CHASSIS AND CABINET 46
PARTS LIST OF EXPLODED VIEW 47
WIRING DIAGRAM 48
SCHEMATIC DIAGRAM .... 49~57
REMOTE CONTROL UNIT (RC-844) .... 59~60
    SCHEMATIC DIAGRAM 59
    EXPLODED VIEW 60
    PARTS LIST 60

- **Some illustrations using in this service manual are slightly different from the actual set.**

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS

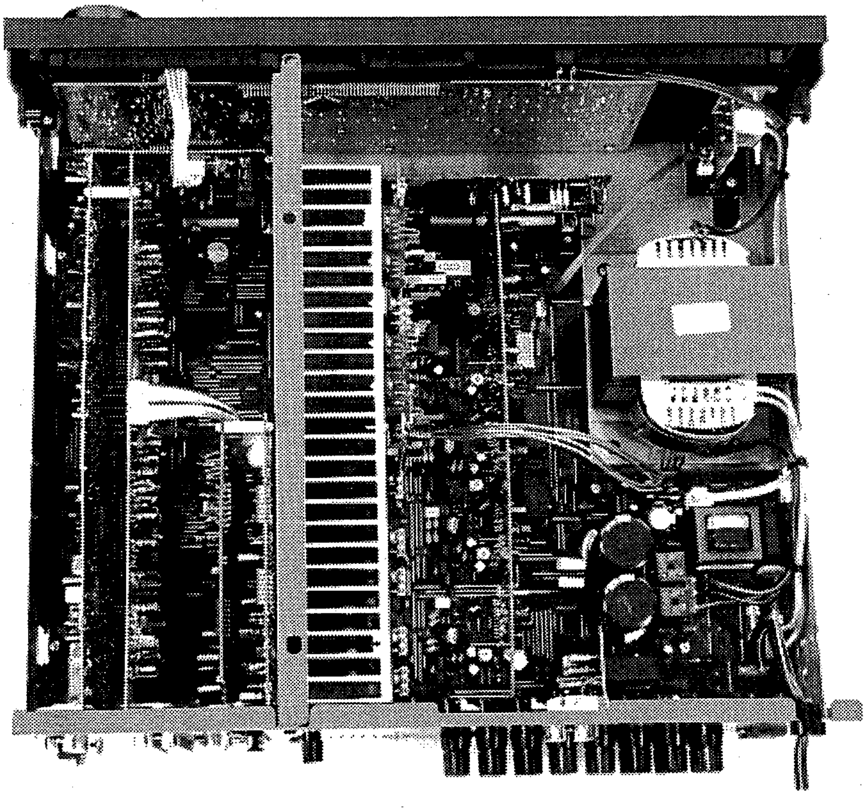
The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WIRE ARRANGEMENT

In case of wires require unclasping or loosening to move the location the perform adjustment or part replacement, be sure to rearrange them neatly to restore properly in the same location as they were originally placed, or causing to produce a noise may cccasionally occur.

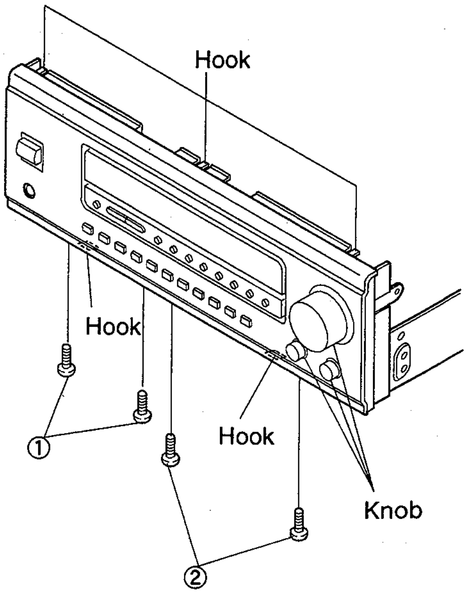


DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

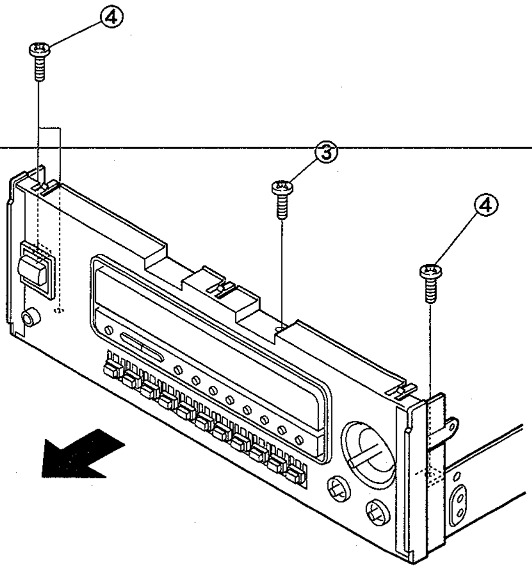
Front Aluminium Panel

1. Pull out 3 Knobs.
2. Remove 4 screws ① and ②.
3. Unfasten 3 upper hooks and 2 lower hooks.



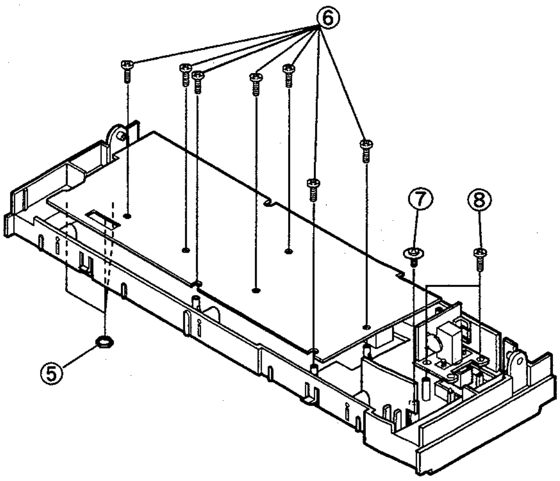
Front Mold Panel

1. Remove 4 screws ③, ④.
2. Detach the Front Mold Panel straightforward in the arrow direction as it connects with connectors.



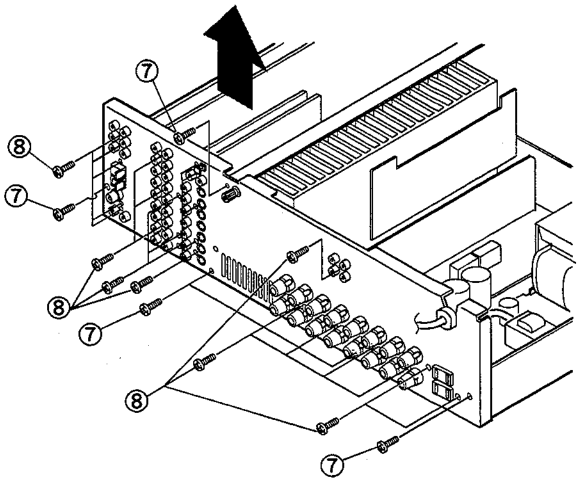
● Disassembling P.W.Board

3. Remove 3 nuts ⑤ and 10 screws ⑥, ⑦, ⑧.



Tuner/Vr, Audio In/DSP, Video and S-Video

1. Remove 28 screws ⑦, ⑧.
2. Disconnect the connector, pulling the objective Unit in the arrow direction.

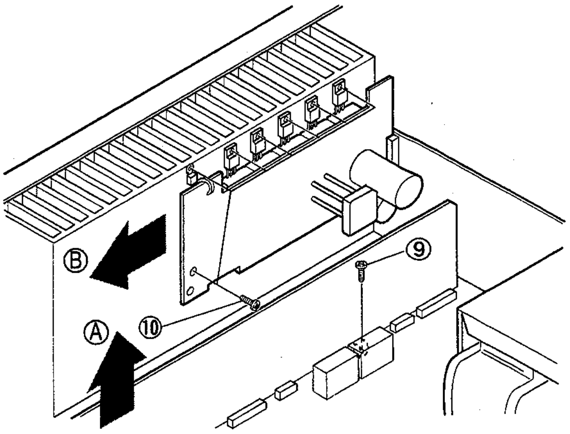


Amp Unit

1. Remove 1 screws ⑨.
2. Disconnect from the connector, pulling the Amp Unit in the arrow direction Ⓐ.

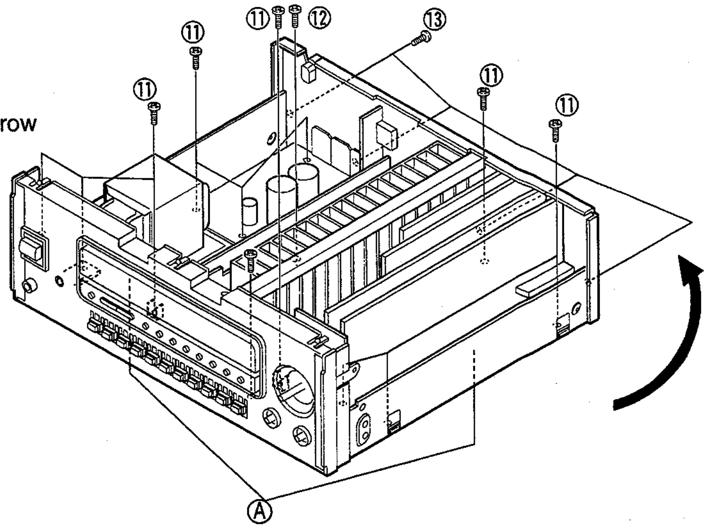
Regulator Unit

1. Remove 7 screw ⑩.
2. Disconnect from the connector, pulling the Regulator Unit direction Ⓑ.

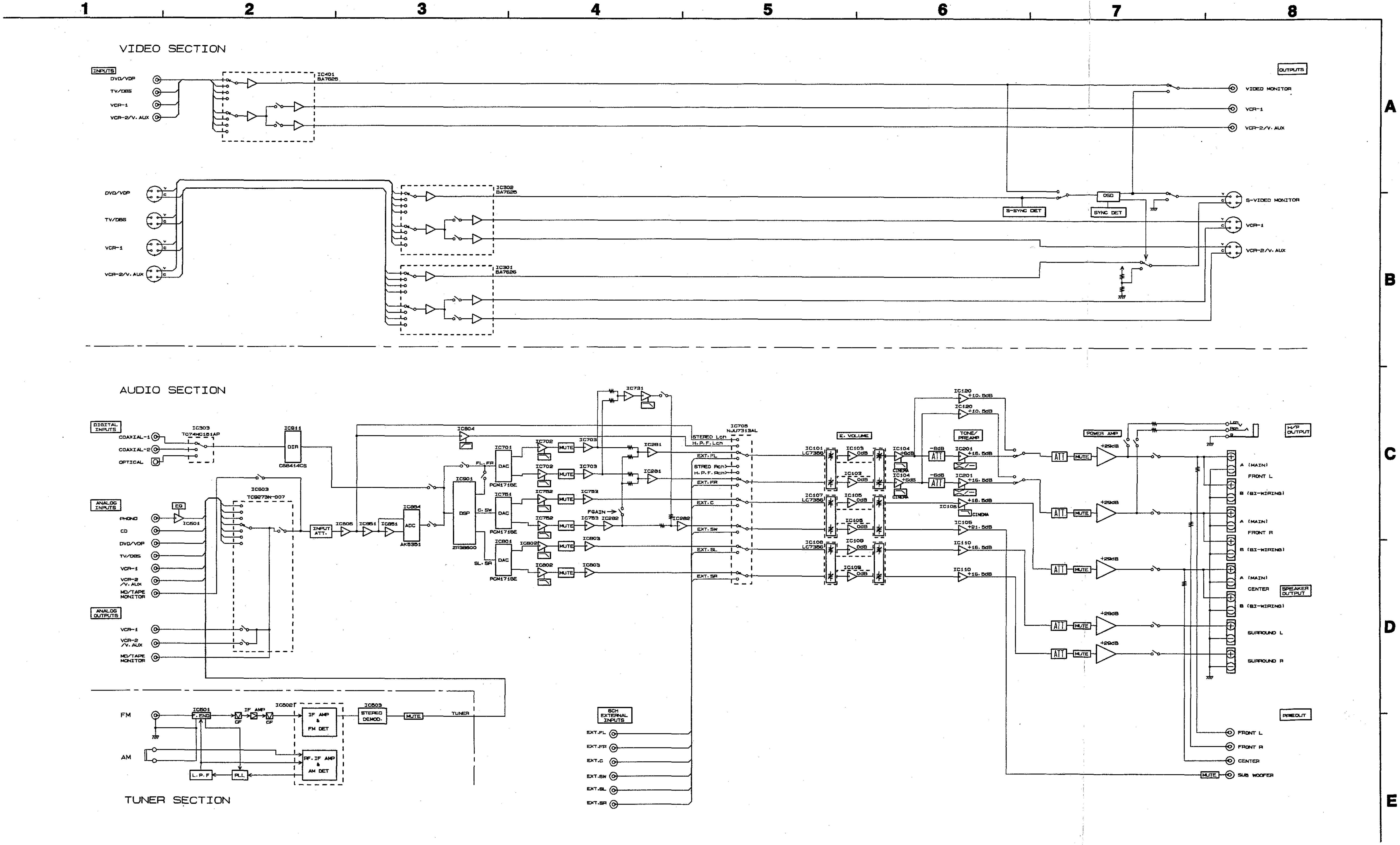


When Maintenance for Control Unit (1U-3107-1) and Power Unit (1U-3108-1)

1. Unfasten the Front Alminium Panel.
2. Remove 17 screws ⑪, ⑫, ⑬.
3. Unfasten the hooks of Holder Ⓐ.
4. Then separate Chassis only, and by standing it in the arrow direction, it is possible to check with power on.



BLOCK DIAGRAM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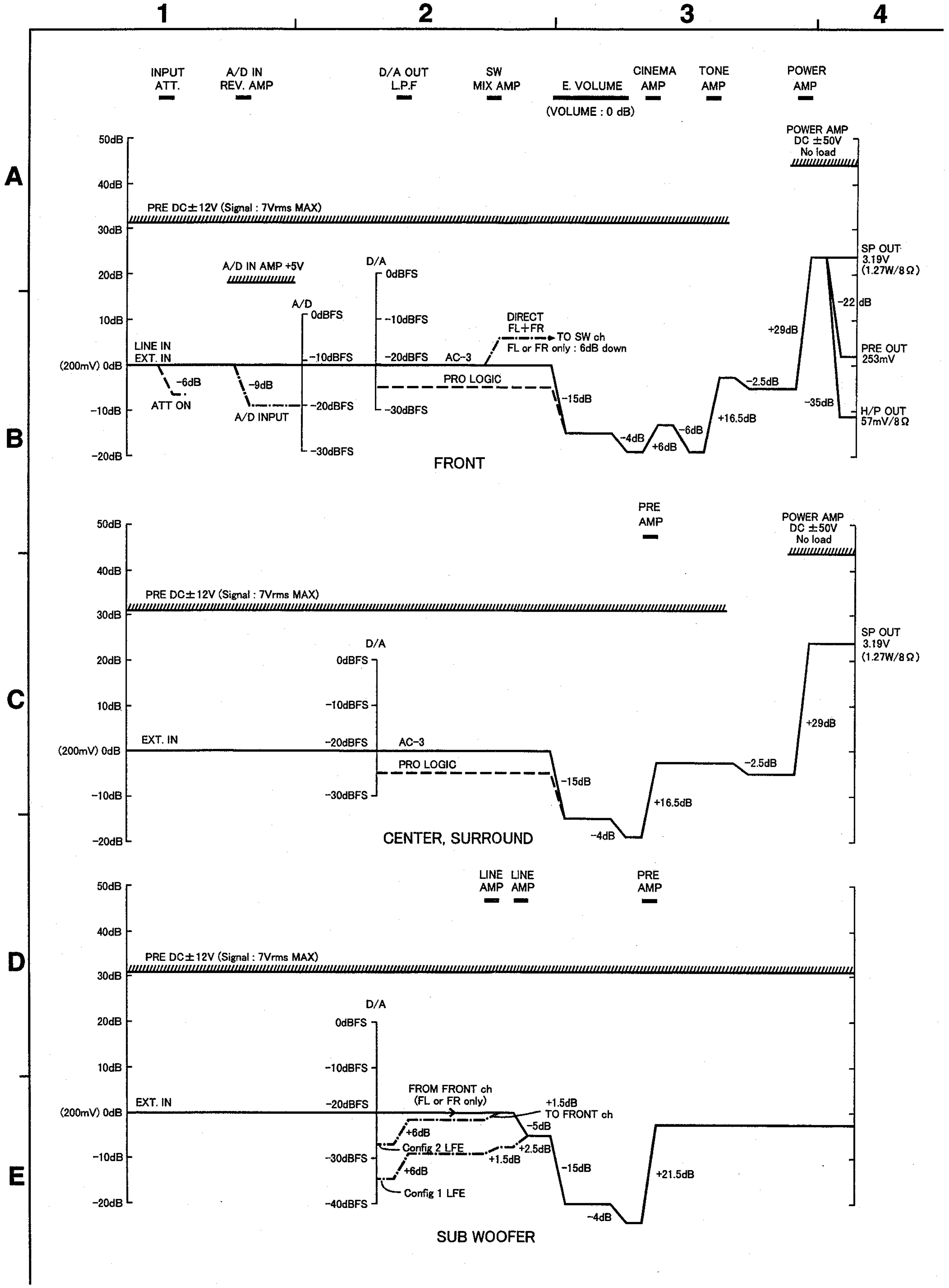
D
E
VIDEO SECTION
INPUTS
DVD/VDP
TV/DBS
VCR-1
VCR-2/V. AUX
IC401
BA7625
OUTPUTS
VIDEO MONITOR
VCR-1
VCR-2/V. AUX
IC302
BA7626
IC301
BA7626
S-SYNC DET
OSD
SYNC DET
S-VIDEO MONITOR
VCR-1
VCR-2/V. AUX
AUDIO SECTION
DIGITAL INPUTS
COAXIAL-1
COAXIAL-2
OPTICAL
IC303
TC74HC151AP
IC811
DIR
CS8414CS
ANALOG INPUTS
EQ
IC501
PHONO
CD
DVD/VDP
TV/DBS
VCR-1
VCR-2 /V. AUX
MD/TAPE MONITOR
IC803
TC9273N-007
INPUT ATT.
IC505
IC851
IC851
IC854
ADC
AK5351
IC804
IC901
DSP
ZR38600
FL. FR
C. SW
SL. SR
IC701
DAC
PCM1716E
IC751
DAC
PCM1716E
IC801
DAC
PCM1716E
IC702
IC752
IC802
MUTE
IC703
IC753
IC803
IC731
IC281
IC282
FGAIN
STEREO Lch
H.P.F. Lch
EXT. FL
STEREO Rch
H.P.F. Rch
EXT. FR
EXT. C
EXT. SW
EXT. SL
EXT. SR
IC705
NJU7313AL
E. VOLUME
IC101
LC7356
IC107
LC7356
IC108
LC7356
IC105
0dB
IC103
IC106
IC109
IC104
+6dB
CINEMA
-8dB
ATT
IC120
+10.5dB
TONE/ PREAMP
IC201
+16.5dB
IC106
+18.5dB
IC105
+21.5dB
IC110
+16.5dB
POWER AMP
+29dB
ATT
MUTE
Lch
Rch
H/P OUTPUT
A (MAIN)
FRONT L
B (BI-WIRING)
A (MAIN)
FRONT R
B (BI-WIRING)
A (MAIN)
CENTER
B (BI-WIRING)
SPEAKER OUTPUT
SURROUND L
SURROUND R
ANALOG OUTPUTS
VCR-1
VCR-2 /V. AUX
MD/TAPE MONITOR
FM
AM
IC501
F. END
CF
IF AMP
IC502
IF AMP & FM DET
RF. IF AMP & AM DET
L. P. F
PLL
IC503
STEREO DEMOD.
MUTE
TUNER
TUNER SECTION
5CH EXTERNAL INPUTS
EXT.FL
EXT.FR
EXT.C
EXT.SW
EXT.SL
EXT.SR
PREOUT
FRONT L
FRONT R
CENTER
MUTE
SUB WOOFER

LEVEL DIAGRAM

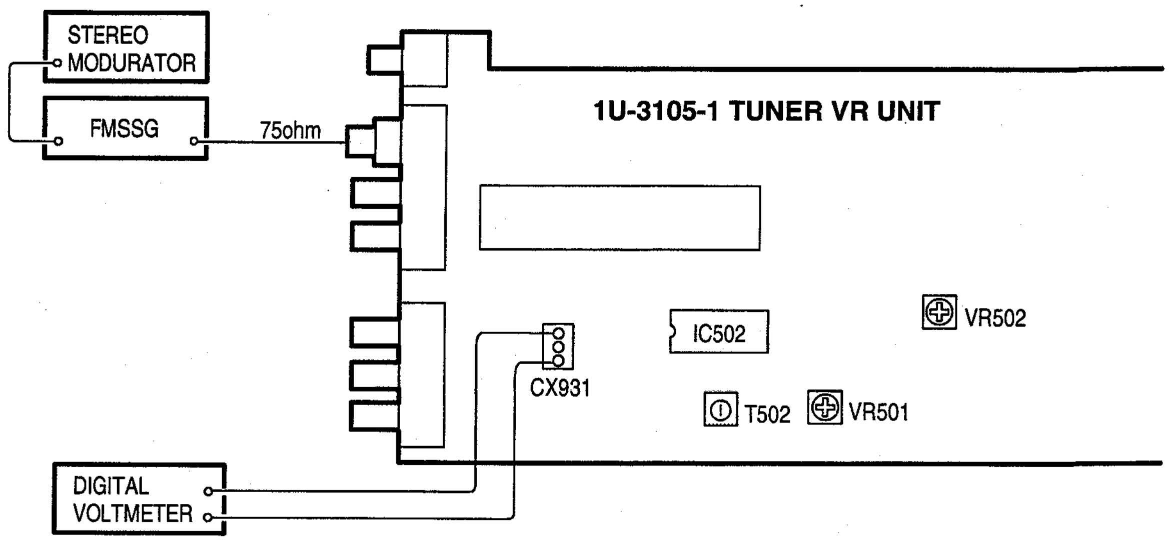


ADJUSTMENT

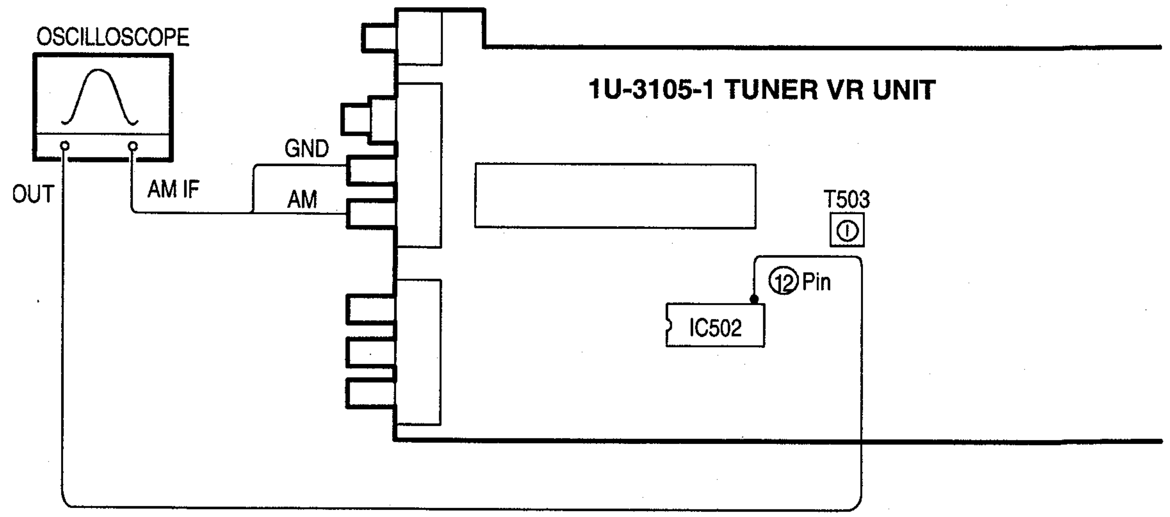
Tuner Section

CONNECTION DIAGRAM OF MEASURING INSTRUMENTS

● FM


STEREO MODURATOR
FMSSG
75ohm
1U-3105-1 TUNER VR UNIT
IC502
VR502
CX931
T502
VR501
DIGITAL VOLTMETER

● AM


OSCILLOSCOPE
OUT
AM IF
GND
AM
1U-3105-1 TUNER VR UNIT
T503
⑫Pin
IC502

FM/MPX ALIGNMENT

Step	Alignment Item	Tuning Frequency Setting	Input					Output		Adjust		Remarks
			Type	Frequency	Input Level	Modulation	Coupling	Type	Connect to	Points	Adjust to	
1	Tuning Center	98.1 MHz	FM SSG	98.1 MHz	60 dB?	None	Antenna Terminal	Digital Voltmeter	CX931	T502	± 50mV	Function : FM Mode : Auto
2	Separation	98.1 MHz	FM SSG	98.1 MHz	60 dB?	Stereo (L) 1KHz 100%	Antenna Terminal	AC Voltmeter	AUDIO OUT Terminal (R)	VR502	Maximum Separation	—
3	Signal Level	98.1 MHz	FM SSG	98.1 MHz	20 dB?	Off	Antenna Terminal	—	—	VR501	Light "TUNED" FLD Character	—

AM ALIGNMENT

Step	Alignment Item	Frequency	Input	Output		Adjustment		Remarks
				Type	Connect to	Points	Adjust to	
1	IF	—	IF SWEEP (Input level is not over to work A.G.C.)	Oscilloscope	IC502 12Pin	T503	Maximum height and best symmetry curve	

Audio Section

Idling Current (1U-3108-1)

Required measurement equipment : DC Voltmeter

Arrengement

(1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room tempereture 15 °C ~ 30 °C (59 °F ~ 86 °F).

(2) Presetting

- POWER (Power sourse switch) → OFF
- BASS, TREBLE (Tone control) → FLAT: (Controls to center)
- SPEAKER (Speaker terminal) → No load (Do not connect speaker, dummy resistor, etc.)

Adjustment

(1) Remove top cover and set VR501, VR502, VR503, VR504, VR505, on 1U-3108-1 (Power Unit) at counterclockwise (↺) fully.

(2) Connect DC Voltmeter to test points (FRONT-Lch: TP501, FRONT-Rch: TP502, CENTER ch: TP505, SURROUND-Lch: TP503, SURROUND-Rch: TP504).

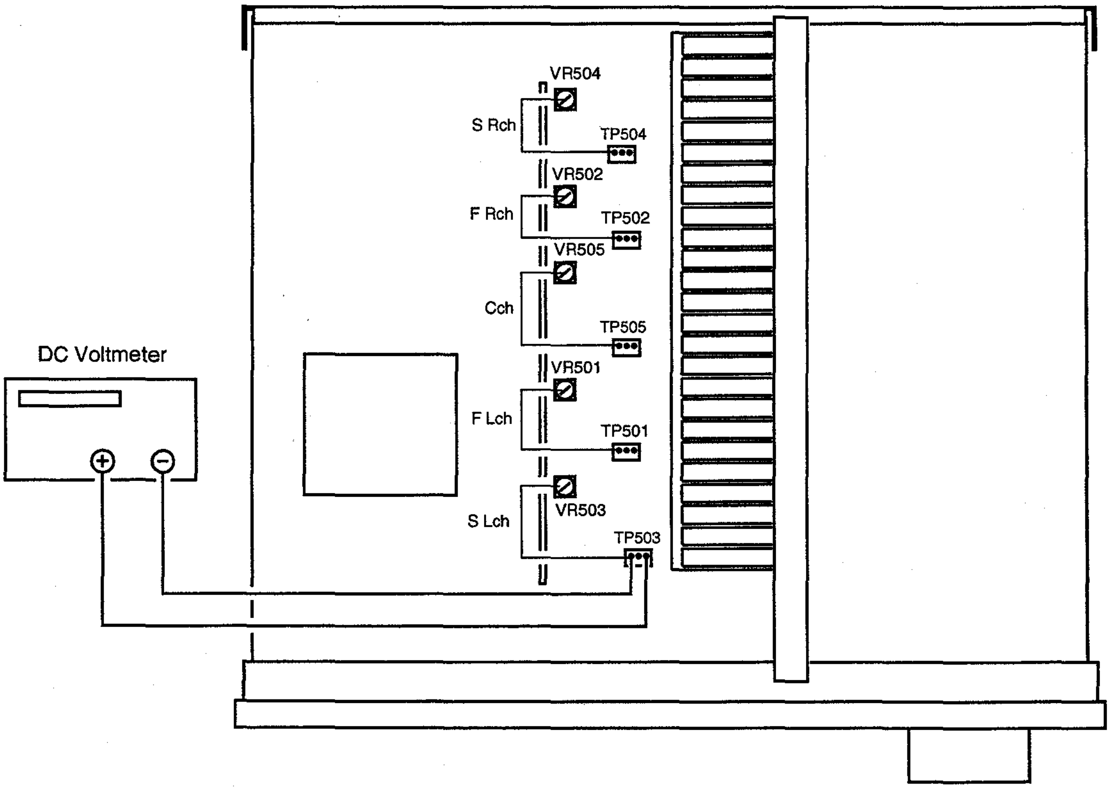
(3) Connect power cord to AC Line, and turn power switch "ON".

(4) Presetting.
MASTER VOLUME : "---" counterclockwise (↺ min.)
MODE : 5CH STEREO
FUNCTION : CD

(5) Allow 2 minutes, and turn VR501 clockwise (↻) and adjust the TEST POINTS voltage to 1.5 mV ±0.5 mV DC.

(6) After 10 minutes from preset, turn VR501 to set the voltage to 3 mV ±0.5 mV DC.

(7) Adjust the Variable Resistors of other channels in the same way.



FUNCTION OF NEW CIRCUIT

Circuit Description

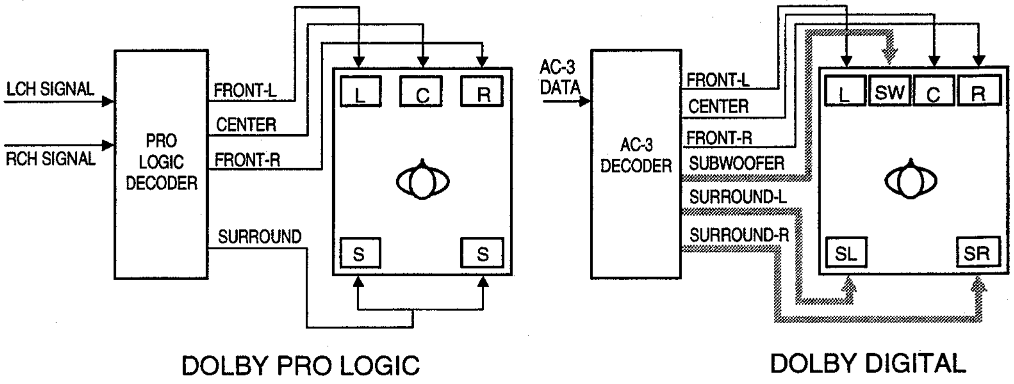
DOLBY DIGITAL (AC-3)

DOLBY DIGITAL (AC-3) is a format of new surround signal reproduces maximum 5 channels, i. e. FRONT-LEFT, -RIGHT, CENTER and SURROUND-LEFT, -RIGHT ;plus exclusive subwoofer signal (0.1 ch), totally 5.1 channels from the exclusive digital signal.

Following are the featuring points of DOLBY DIGITAL (AC-3).

(1) Makes surround channel into stereo.
(2) Provides optimum separation due to independent processing of each channel signal.
(DOLBY DIGITAL: More than 80 dB, PRO LOGIC: Approx. 25~40 dB)
(3) Resultant surpassed orientation feeling and movement feeling obtained from flat frequency characteristic.
(DOLBY DIGITAL: 20Hz~20kHz all channels, PRO LOGIC: 20 Hz~20 kHz FRONT, CENTER channels 20 Hz~7 kHz SURROUND channels)
(4) With the high-efficient signal coding technique, one digital cable permits transmission maintaining the above features.

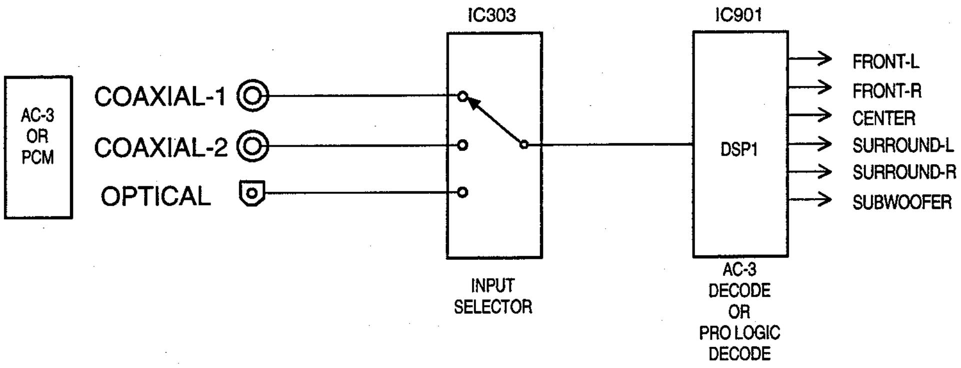
Comparative Diagram of PRO LOGIC and DOLBY DIGITAL


LCH SIGNAL
RCH SIGNAL
PRO LOGIC DECODER
FRONT-L
CENTER
FRONT-R
SURROUND
L
C
R
S
S
AC-3 DATA
AC-3 DECODER
FRONT-L
CENTER
FRONT-R
SUBWOOFER
SURROUND-L
SURROUND-R
L
SW
C
R
SL
SR
DOLBY PRO LOGIC
DOLBY DIGITAL

The DOLBY DIGITAL (AC-3) input signal is a composite signal composed of universal optical or coaxial digital format (IEC958) and "AC-3 exclusive" digital signal. It is connected in the same way as ordinary optical or coaxial digital signal connection. AVR-2700 adapts itself to the DOLBY DIGITAL (AC-3) or other signal (PCM) automatically corresponding to the signal inputted. The applied signal to each input terminal is delivered to DSP (IC901) through input selector (IC303) and executed Dolby digital decode processing. The DOLBY DIGITAL (AC-3) data and PCM data are transferred on a common signal line.

DSP (IC901) performs AC-3 decoding process, DOLBY PRO LOGIC process and PCM digital process and PCM digital process by shifting. Decoded signal to each channel after passed through DSP1 (IC901) is D/A converted and delivered to volume control.

Block Diagram of AC-3, PCM Input Section



CONTROL ADVISABILITY OF EACH MODE

	FRONT L LEV.	FRONT R LEV.	CENTER LEVEL	SURROUND L LEVEL	SURROUND R LEVEL	S. WOOFER LEVEL	INPUT ATTENUATOR	ROOM SIZE	EFFECT LEVEL	DELAY TIME	CINEMA EQ.	D. COMP.	TEST TONE
DIRECT	O	O	X	X	X	O✻3	O✻4	X	X	X	X	O✻5	O✻6
STEREO	O	O	X	X	X	O✻3	O✻4	X	X	X	X	O✻5	
6CH EXT, IN	O	O	O✻1	O✻2	O✻2	O✻3	X	X	X	X	X	X	
5CH STEREO	O	O	O✻1	O✻2	O✻2	O✻3	O✻4	X	X	X	X	X	
DOLBY AC-3 or DOLBY PROLOGIC	O	O	O✻1	O✻2	O✻2	O✻3	O✻4	X	X	X	O	O✻5	
MONO MOVIE	O	O	O✻1	O✻2	O✻2	O✻3	O✻4	O	O	X	X	X	
ROCK ARENA	O	O	O✻1	O✻2	O✻2	O✻3	O✻4	O	O	X	X	X	
JAZZ CLUB	O	O	O✻1	O✻2	O✻2	O✻3	O✻4	O	O	X	X	X	
VIDEO GAME	O	O	O✻1	O✻2	O✻2	O✻3	O✻4	O	O	X	X	X	
MATRIX	O	O	O✻1	O✻2	O✻2	O✻3	O✻4	X	X	O	X	X	

O : Feasible to control X : Infeasible to control

O✻1 : According to the contents of set up menu, when no center speaker is provided, with no controlling and sets -∞ data to center electronic volume.
O✻2 : According to the contents of set up menu, when no surround speaker is provided, with no controlling and sets -∞ data to surround electronic volume.
O✻3 : According to the contents of set up menu, when no woofer is provided, with no controlling and sets -∞ data to woofer electronic volume.
O✻4 : Feasible to control only at analog input. Note that, this function corresponds to each input channel.
O✻5 : Feasible to control only at AC-3 input.
O✻6 : Feasible to control TEST TONE in all modes of set up menu.

Additional note : Each mode's FRONT/CENTER/SURROUND/S. WOOFER DELAY should be set according to the setting contents of delay time for set up menu.

DIGITAL/ANALOG, SURROUND MODE IN EACH INPUT FUNCTION AND INITIAL SETTING OF DIGITAL FUNCTION

INPUT FUNCTION	DIGITAL/ANALOG	SURROUND MODE	DIGITAL FUNCTION
PHONO	FORCED ANALOG	STEREO	INFEASIBLE TO SET
CD	ANALOG	STEREO	COAXIAL-1
TUNER	FORCED ANALOG	STEREO	INFEASIBLE TO SET
DVD/VDP	ANALOG	DOLBY PRO LOGIC or DOLBY DIGITAL	OPTICAL-1
TV/DBS	ANALOG	STEREO	COAXIAL-2
VCR-1	ANALOG	DOLBY PRO LOGIC	OFF
VCR-2/V.AUX	ANALOG	STEREO	OFF
MD/TAPE	FORCED ANALOG	STEREO	INFEASIBLE TO SET

INITIAL SETTING OF EACH MODE

	FRONT L LEV.	FRONT R LEV	CENTER LEVEL	SURROUND L LEVEL	SURROUND R LEVEL	S. WOOFER LEVEL	INPUT ATTENUATOR	ROOM SIZE	EFFECT LEVEL	DELAY TIME	CINEMA EQ	D. COMP. ✻1
DIRECT	0 dB	0 dB	—	—	—	0 dB	—	—	—	—	—	OFF
STEREO	0 dB	0 dB	—	—	—	0 dB	0 dB	—	—	—	—	OFF
6CH EXT. IN	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	—	—	—	—	—	—
5CH STEREO	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	—	—	—	—	—
DOLBY AC-3 or DOLBY PROLOGIC	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	—	—	—	OFF	OFF
MONO MOVIE	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	MED	10	—	—	—
ROCK ARENA	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	MED	10	—	—	—
JAZZ CLUB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	MED	10	—	—	—
VIDEO GAME	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	MED	10	—	—	—
MATRIX	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	0 dB	—	—	30m sec	—	—

✻1 : Conditions in case for setting AC-3 data to ZR38600.

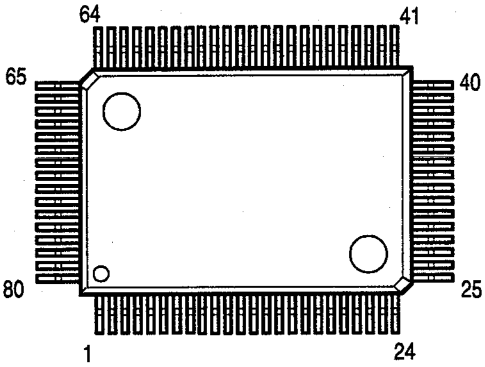
Others:
- Set TAPE MONITOR to OFF.
- Set VIDEO SELECT to OFF.
- Set MASTER VOL to - ∞.
- Each input should be set to analog input.
- Set TEST TONE to OFF.
- In case DEFAULT is selected for SURR. PARAMETERS setting menu, sets the appropriate parameter of ROOM SIVE, EFFECT LEVEL, DELAY, CINEMA, D. COMP FRONT LEVEL, CENTER LEVEL, SURR LEVEL, SW LEVEL to the initial value of above table.

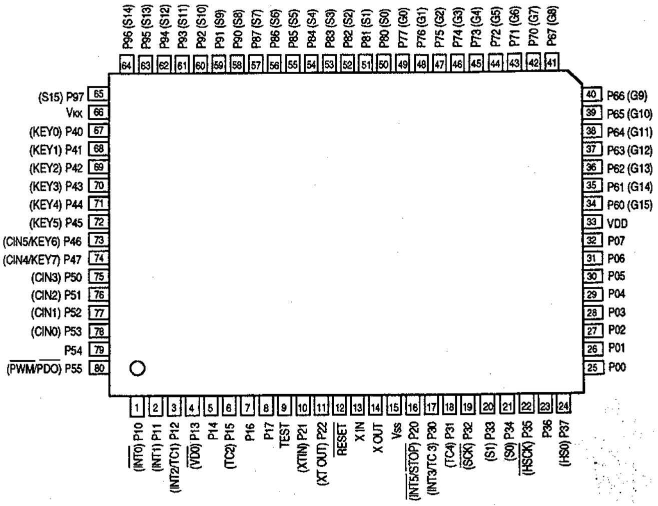
SEMICONDUCTORS

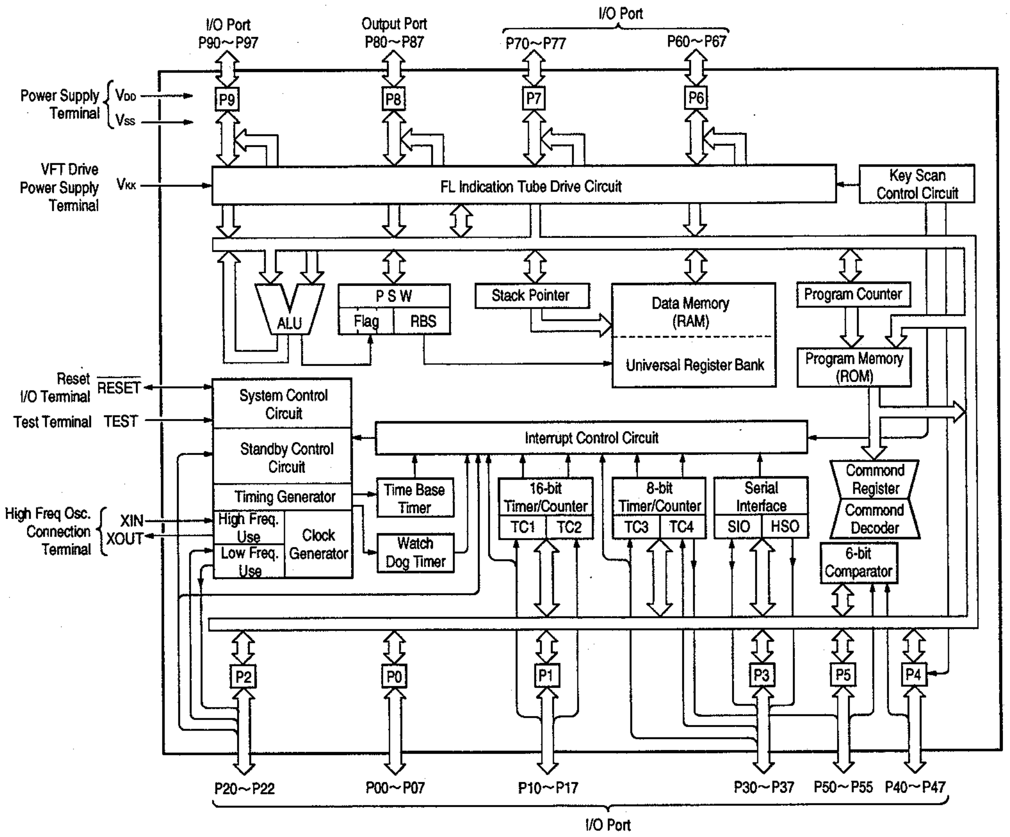
● IC's

Note: Indications before IC numbers denote P.W.B. name.
TU : Tuner, Volume, Amp Unit
VI : Video, Display Unit
CO : Control, Power Unit
PA : Power Amp Unit
AU : Audio in, DSP Unit

TMP87CS71F-**** (CO: IC113)


64
41
65
40
80
25
1
24


P96 (S14) 64
P95 (S13) 63
P94 (S12) 62
P93 (S11) 61
P92 (S10) 60
P91 (S9) 59
P90 (S8) 58
P87 (S7) 57
P86 (S6) 56
P85 (S5) 55
P84 (S4) 54
P83 (S3) 53
P82 (S2) 52
P81 (S1) 51
P80 (S0) 50
P77 (G0) 49
P76 (G1) 48
P75 (G2) 47
P74 (G3) 46
P73 (G4) 45
P72 (G5) 44
P71 (G6) 43
P70 (G7) 42
P67 (G8) 41
(S15) P97 65
Vkk 66
(KEY0) P40 67
(KEY1) P41 68
(KEY2) P42 69
(KEY3) P43 70
(KEY4) P44 71
(KEY5) P45 72
(CIN5/KEY6) P46 73
(CIN4/KEY7) P47 74
(CIN3) P50 75
(CIN2) P51 76
(CIN1) P52 77
(CIN0) P53 78
P54 79
(PWM/PDO) P55 80
40 P66 (G9)
39 P65 (G10)
38 P64 (G11)
37 P63 (G12)
36 P62 (G13)
35 P61 (G14)
34 P60 (G15)
33 VDD
32 P07
31 P06
30 P05
29 P04
28 P03
27 P02
26 P01
25 P00
1 (INT0) P10
2 (INT1) P11
3 (INT2/TC1) P12
4 (VD0) P13
5 P14
6 (TC2) P15
7 P16
8 P17
9 TEST
10 (XTIN) P21
11 (XT OUT) P22
12 RESET
13 X IN
14 X OUT
15 Vss
16 (INT5/STOP) P20
17 (INT3/TC3) P30
18 (TC4) P31
19 (SCK) P32
20 (S1) P33
21 (S0) P34
22 (HSCK) P35
23 P36
24 (HS0) P37


I/O Port
P90~P97
Output Port
P80~P87
I/O Port
P70~P77
P60~P67
Power Supply Terminal
VDD
VSS
P9
P8
P7
P6
VFT Drive Power Supply Terminal
VKK
FL Indication Tube Drive Circuit
Key Scan Control Circuit
ALU
P S W
Flag
RBS
Stack Pointer
Data Memory (RAM)
Universal Register Bank
Program Counter
Program Memory (ROM)
Reset I/O Terminal
RESET
Test Terminal
TEST
System Control Circuit
Standby Control Circuit
Interrupt Control Circuit
Timing Generator
Time Base Timer
Watch Dog Timer
High Freq Osc. Connection Terminal
XIN
XOUT
High Freq. Use
Low Freq. Use
Clock Generator
16-bit Timer/Counter
TC1
TC2
8-bit Timer/Counter
TC3
TC4
Serial Interface
SIO
HSO
Commond Register
Commond Decoder
6-bit Comparator
P2
P0
P1
P3
P5
P4
P20~P22
P00~P07
P10~P17
P30~P37
P50~P55
P40~P47
I/O Port

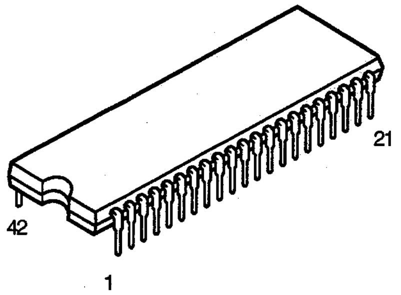
TMP87CS71F-**** (IC113) Terminal Function

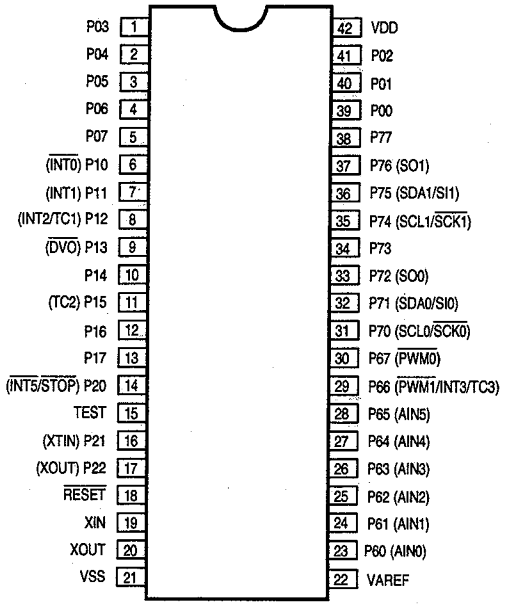
Pin No.	Port Name	Symbol	I/O	Type	Op	Det	Res	Init	Function
1	P10/INT 0	PROTECTION IN	I	—	Eu	E&L	Z	—	Protection detecting input. (L: Detection)
2	P11/INT 1	DSP CLK IN	I	—	Eu	Ed	Z	—	DSP control terminal.
3	P12/INT 2	RDS START	I	—	Eu	Ed	Z	H	RDS data input (LC7074). *E2 model only.
4	P13/DVO	STEREO/MONO	O	C	—	—	Z	L	STEREO/MONO control signal. (L: STEREO receiving)
5	P14	PLL-ST	O	C	—	—	Z	L	LM72131 control output.
6	P15/TC2	TAPE MONITOR	O	C	—	—	Z	H	Tape monitor control output. (H: Tape monitor ON).
7	P16	INPUT ATT	O	C	—	—	Z	H	Input attenuate control terminal. (L: 6dB attenuate).
8	P17	TUNED SIGNAL	I	—	Eu	Lv	Z	—	Tuning detection. (L: Tuning)
9	TEST	TEST	I	—	GND	S	—	—	Connect to ground.
10	P21/XTIN	STEREO SIGNAL	I	—	Eu	Lv	Z	—	STEREO control signal. (L: STEREO receiving)
11	P22/XTO	SCL	O	N	Eu	—	Z	H	MAIN-SUB microcomputer communication control terminal.
12	RESET	RESET	I	—	Eu	Lv	L	—	Reset input.
13	XIN	XIN	I	—	—	—	—	—	Oscillator circuit terminal. (4MHz)
14	XOUT	XOUT	O	—	—	—	—	—	Oscillator circuit terminal. (4MHz)
15	VSS	VSS	I	—	GND	—	—	—	Ground.
16	P20/INT 5	POWER OFF	I	—	Eu	Lv	Z	—	Power OFF detection terminal. (L: Power OFF)
17	P30/INT 3	REMOCON	I	—	Ed	E&L	Z	—	Remote signal input.
18	P31/TC4	SDA	O	N	Eu	S	Z	H	MAIN-SUB microcomputer communication control terminal.
19	P32/SCK	RDS CLK	I	—	—	S	Z	—	RDS clock input (LC7074). *E2 model only.
20	P33/SI	RDS DATA	I	—	—	S	Z	—	RDS data input (LC7074). *E2 model only.
21	P34/SO	RDS RES	O	N	Eu	—	Z	H	RDS reset output (LC7074). *E2 model only.
22	P35/HSCK	OSD CLK	O	N	Eu	S	Z	H	OSD control output. (M35015)
23	P36	OSD CS	O	N	Eu	—	Z	H	OSD control output. (M35015)
24	P37/HSO	OSD DATA	O	N	Eu	S	Z	L	OSD control output. (M35015)
25	P00	OSD RES	O	C	—	—	Z	H	OSD control output. (M35015)
26	P01	FL RES	O	C	—	—	Z	L	Fluorescent display control output. (LC75711NE)
27	P02	FLPL DATA	O	C	—	S	Z	H	Fluorescent display & PLL control output. (LC75711NE & LC72131)
28	P03	FLPL CLK	O	C	—	S	Z	H	Fluorescent display & PLL control output. (LC75711NE & LC72131)
29	P04	FUNC ST2	O	C	—	—	Z	L	Function control output. (NJU7313AL) 5.1CH decoder.
30	P05	FUNC CK	O	C	—	S	Z	L	Function control output. (TC9273N, NJU7313AL)
31	P06	FUNC DATA	O	C	—	S	Z	L	Function control output. (TC9273N, NJU7313AL)
32	P07	FUNC ST1	O	C	—	—	Z	L	Function control output. (TC9273N).
33	VDD	VDD	I	—	—	—	—	—	Connect to +5V power supply.
34	P60	E. VOL CE2	O	P	Id	—	L	L	Electronic volume control output. (LC7536) (Center/Sub woofer, Surround L/R)
35	P61	E. VOL CE1	O	P	Id	—	L	L	Electronic volume control output. (LC7536) (Front L/R)
36	P62	E. VOL CK	O	P	Id	—	L	H	Electronic volume control output. (LC7536)
37	P63	E. VOL DATA	O	P	Id	—	L	H	Electronic volume control output. (LC7536)
38	P64	CINEMA EQ	O	P	Id	—	L	H	Cinema Eq control output. (H: ON)
39	P65	ERR MUTE	O	P	Id	—	L	H	Pop noise prevention control terminal. (H: Power ON)
40	P66	96DET	I	—	Id	—	L	L	Sampling frequency detection terminal. (H: 96kHz)
41	P67	SELCK	O	P	Id	—	L	H	DIR control terminal. (CS8414) (H: Digital, L: Analog)
42	P70	TUNER MUTE	O	P	Id	—	H	H	Tuner mute output. (H: Mute)
43	P71	SEL	O	P	Id	—	L	H	DIR control terminal. (CS8414)
44	P72	FL CE	O	P	Id	—	L	H	Fluorescent display control output. (LC75711NE)
45	P73	STANDBY LED	O	P	Id	—	L	H	Standby indication LED drive output. (H: Lighting)
46	P74	DOLBY DIGITAL LED	O	P	Id	—	L	L	Dolby Digital indication LED drive output. (H: Lighting)
47	P75	LOCK LED	O	P	Id	—	L	L	Lock indication LED drive output. (H: Lighting)
48	P76	OVER LOAD LED	O	P	Id	—	L	L	Over load indication LED drive output. (H: Lighting)
49	P77	VOL MUTE	O	P	Id	—	L	L	Control signal at minus infinite of master volume. (L: infinite)
50	P80	SW-MUTE	O	P	Id	—	L	H	Subwoofer mute output. (L: Mute)
51	P81	SP-A	O	P	Id	—	L	H	Front speaker relay control output. (L: Mute)
52	P82	RL-C	O	P	Id	—	L	H	Center speaker relay control output. (L: Mute)
53	P83	RL-S	O	P	Id	—	L	L	Surround speaker relay control output. (L: Mute)
54	P84	H/P MUTE	O	P	Id	—	L	H	Headphone relay control output. (L: Mute)
55	P85	DIRECT	O	P	Id	—	L	H	Direct relay control output. (H: Direct)
56	P86	POWER	O	P	Id	—	L	H	Power supply relay control output. (H: ON)
57	P87	AC-3 MUTE	O	P	Id	—	L	H	Digital mute control terminal (L: AC-3).
58	P90	OVL	I	—	Id	—	L	—	Over load detecting input. (H: Over load)
59	P91	AC-3 DET.	I	—	Id	—	L	—	AC-3 decode data input terminal. (L: AC-3 decode)
60	P92	F0	I	—	—	—	L	—	DIR control input terminal. (CS8414)
61	P93	F1	I	—	—	—	L	—	DIR control input terminal. (CS8414)
62	P94	F2	I	—	—	—	L	—	DIR control input terminal. (CS8414)
63	P95	CSI	I	—	Id	—	L	—	DIR control input terminal. (ZR38600) (L: PCM)
64	P96	ERR	I	—	Id	—	L	—	DIR control input terminal. (ZR38600) (H: ERR)
65	P97	S1	O	P	Id	—	L	H	Video signal switching control output.
66	VKK	VKK	I	—	—	—	—	—	Connect to ground.
67	P40/KEY0	S-MONITOR DET.	I	—	Eu	Lv	Z	—	Judgment whether S monitor is connected or not. (L: Connecting)
68	P41/KEY1	S-SIGNAL DET.	I	—	Eu	Lv	Z	—	S signal input control. (H: S signal input)
69	P42/KEY2	OSD SYNC DET.	I	—	Eu	Lv	Z	—	OSD sync switching signal. (H: External sync)
70	P43/KEY3	MVOL SELB	I	—	Eu	Lv	Z	H	Master volume setting signal. (Rotary encode)
71	P44/KEY4	MVOL SELA	I	—	Eu	Lv	Z	H	Master volume setting signal. (Rotary encode)
72	P45/KEY5	S2	O	N	Eu	—	L	—	Video signal switching control output.
73	P46/CIN5	MODE	I	—	Eu	Lv	Z	—	Export country mode switching input.
74	P47/CIN4	DAC PD	O	N	Eu	—	L	—	DAC power down control terminal. (L: Power down).
75	P50/CIN3	KEY4	I	—	Eu	Lv	Z	H	Key input 4.
76	P51/CIN2	KEY3	I	—	Eu	Lv	Z	H	Key input 3.
77	P52/CIN1	KEY2	I	—	Eu	Lv	Z	H	Key input 2.
78	P53/CIN0	KEY1	I	—	Eu	Lv	Z	H	Key input 1.
79	P54	SUB SYNC 1	I	—	Eu	Lv	Z	H	SUB microcomputer sync input.
80	P55/PMW	SO/ZORAN	I	—	Eu	Lv	Z	H	DSP data input terminal. (ZR38600)

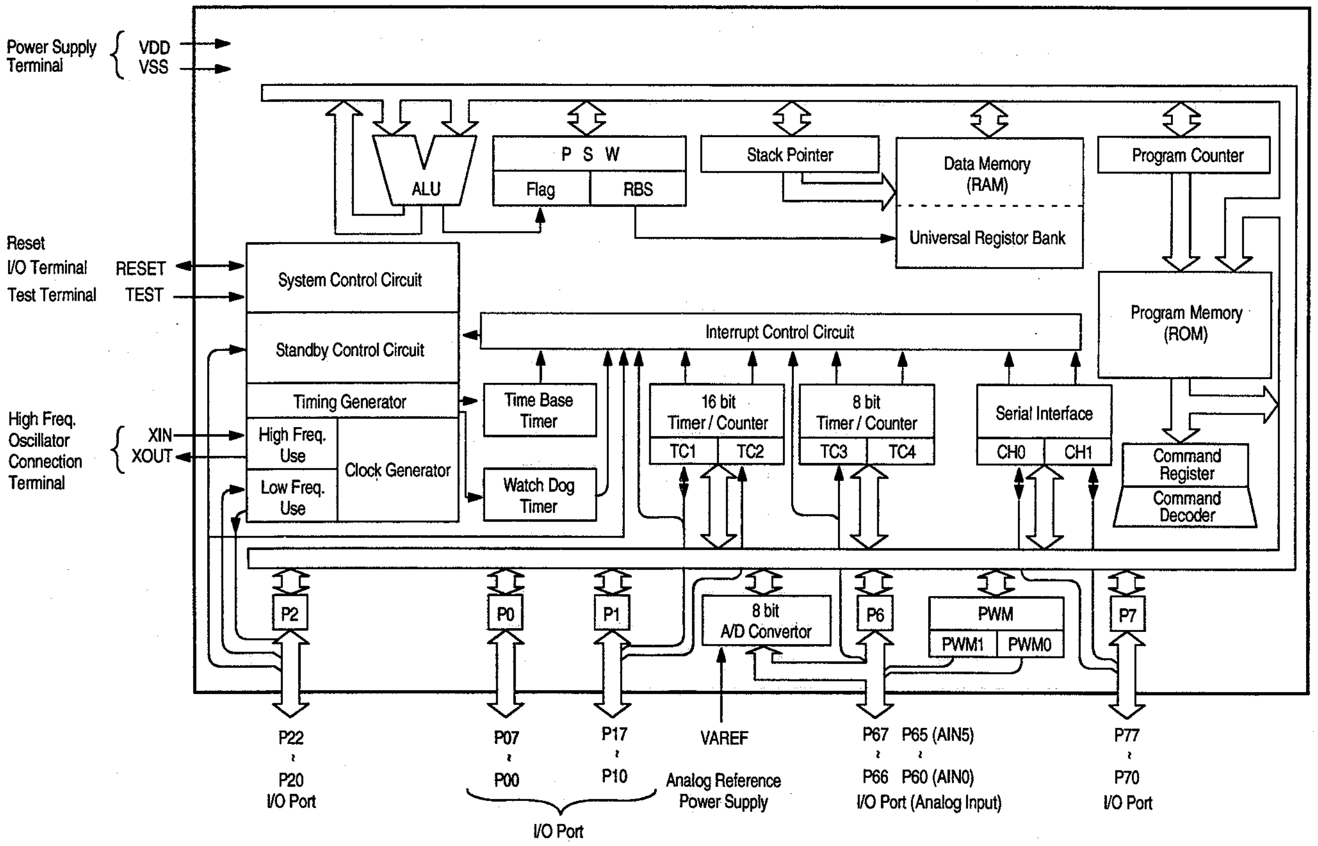
NOTE:

Pin No. : Terminal number of microcomputer.
Port Name : The name entered in the data sheet of microcomputer.
Symbol : Symbolized interface function.
I/O : Input or out of part.
"I" = Input port
"O" = Output port
Type : Composition of port in case of output port.
"C" = CMOS output
"N" = NMOS open drain output
"P" = PMOS open drain output
Op : Pull up/Pull down selection information.
"Iu" = Inner microcomputer pull up
"Id" = Inner microcomputer pull down
"Eu"= External microcomputer pull up
"Ed"= External microcomputer pull down
Det : Indicates judging state of input port. Level detection is "LV"; Edge detection is "Ed"; Detection by both shifting is "E&L"; Serial data detection is "S" (Serial data output is also "S").
Res : State at reset.
"H" = Outputs High Level at reset
"L" = Outputs Low Level at reset
"Z" = Becomes High impedance mode at reset
Ini : Initial output state.
Function : Function and logical level explanation of signals to be interface.

TMP87CM43N-**** (AU: IC903)



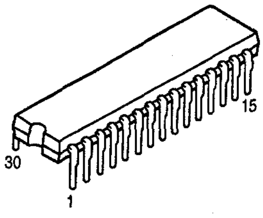

P03 1
P04 2
P05 3
P06 4
P07 5
(INT0) P10 6
(INT1) P11 7
(INT2/TC1) P12 8
(DVO) P13 9
P14 10
(TC2) P15 11
P16 12
P17 13
(INT5/STOP) P20 14
TEST 15
(XTIN) P21 16
(XOUT) P22 17
RESET 18
XIN 19
XOUT 20
VSS 21
42 VDD
41 P02
40 P01
39 P00
38 P77
37 P76 (SO1)
36 P75 (SDA1/SI1)
35 P74 (SCL1/SCK1)
34 P73
33 P72 (SO0)
32 P71 (SDA0/SI0)
31 P70 (SCL0/SCK0)
30 P67 (PWM0)
29 P66 (PWM1/INT3/TC3)
28 P65 (AIN5)
27 P64 (AIN4)
26 P63 (AIN3)
25 P62 (AIN2)
24 P61 (AIN1)
23 P60 (AIN0)
22 VAREF

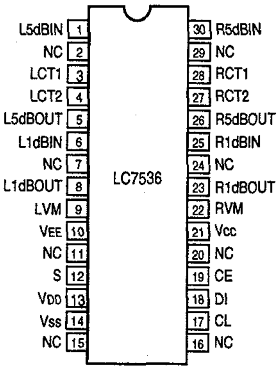

Power Supply Terminal
VDD
VSS
ALU
P S W
Flag
RBS
Stack Pointer
Data Memory (RAM)
Universal Registor Bank
Program Counter
Reset I/O Terminal
RESET
Test Terminal
TEST
System Control Circuit
Standby Control Circuit
Interrupt Control Circuit
Program Memory (ROM)
Timing Generator
High Freq. Oscillator Connection Terminal
XIN
XOUT
High Freq. Use
Low Freq. Use
Clock Generator
Time Base Timer
Watch Dog Timer
16 bit Timer / Counter
TC1
TC2
8 bit Timer / Counter
TC3
TC4
Serial Interface
CH0
CH1
Command Register
Command Decoder
P2
P0
P1
8 bit A/D Convertor
P6
PWM
PWM1
PWM0
P7
P22 ~ P20 I/O Port
P07 ~ P00
P17 ~ P10
I/O Port
VAREF
Analog Reference Power Supply
P67 ~ P66 P65 (AIN5) ~ P60 (AIN0)
I/O Port (Analog Input)
P77 ~ P70 I/O Port

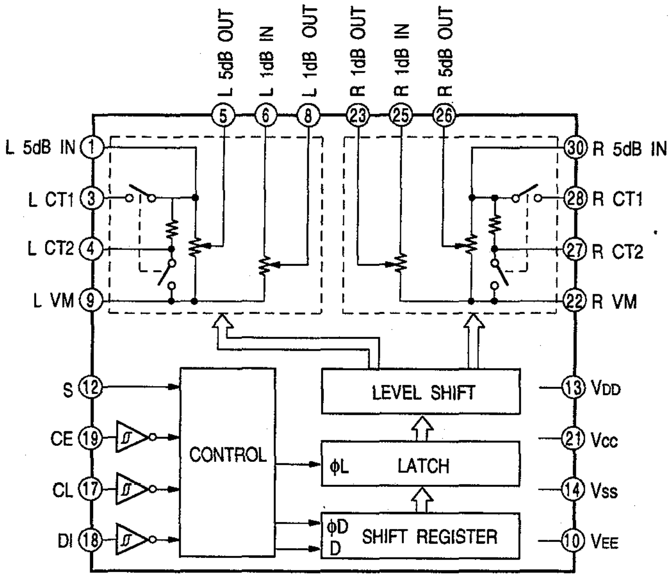
TMP87CM43N-*** Terminal Function

Pin No.	Port Name	Symbol	I/O	Type	Op	Det	Res	Ini	Function
1	P03	DSP POWER	O	C	—	—	L	L	DSP power supply control output (H: ON).
2	P04	DSP RES	O	C	—	—	Z	H	DSP control terminal (ZR38600) (L: reset).
3	P05	DSP DATA	O	C	—	S	Z	H	DSP control terminal (ZR38600).
4	P06	DSP SS	O	C	—	—	Z	L	DSP control terminal (ZR38600).
5	P07	DSP CLK	O	C	—	S	Z	H	DSP control terminal (ZR38600).
6	P10/INT 0	DIN B	O	C	—	—	Z	L	Digital input control terminal (TC74HC151).
7	P11/INT 1	DIN C	O	C	—	—	Z	L	Digital input control terminal (TC74HC151).
8	P12/INT 2	DFS 2	O	C	—	—	Z	L	DAC emphasis control terminal.
9	P13/DV0	DFS 1	O	C	—	—	Z	H	DAC emphasis control terminal.
10	P14	FGAIN	O	C	—	—	Z	H	Gain selection control terminal.
11	P15/TC2		O	C	—	—	Z	L	
12	P16		O	C	—	—	Z	L	
13	P17		O	C	—	—	Z	L	
14	P20/INT 5		O	N	—	—	Z	L	
15	TEST	TEST	I	—	GND	—	—	L	Connect with GND.
16	P21/XTIN		I	—	—	—	Z	L	Connect with GND.
17	P22/XT0		I	—	—	—	Z	L	Connect with GND.
18	RESET	RESET	I	—	Eu	Lv	L	—	Reset input.
19	XIN	XIN	I	—	—	—	—	—	Oscillator circuit (4 MHz).
20	XOUT	XOUT	O	—	—	—	—	—	Oscillator circuit (4 MHz).
21	VSS	VSS	I	—	GND	—	—	—	Connect with GND.
22	VAREF	VAREF	I	—	GND	—	—	—	Connect with GND.
23	P60	A	O	N	Eu	—	Z	L	Video input control terminal (BA7625, BA7626) (L: Select).
24	P61	B	O	N	Eu	—	Z	L	Video input control terminal (BA7625, BA7626) (L: Select).
25	P62	C	O	N	Eu	—	Z	L	Video input control terminal (BA7625, BA7626) (L: Select).
26	P63	D	O	N	Eu	—	Z	L	Video input control terminal (BA7625, BA7626) (L: Select).
27	P64	E	O	N	Eu	—	Z	L	Video input control terminal (BA7625, BA7626) (L: Select).
28	P65		I	—	—	—	Z	L	Connect with GND.
29	P66		I	—	—	—	Z	L	Connect with GND.
30	P67		I	—	—	—	Z	L	Connect with GND.
31	P70/SCL	SCL	I	—	Eu	S	Z	—	MAIN-SUB microcomputer communication control terminal.
32	P71/SDA	SDA	I	—	Eu	S	Z	—	MAIN-SUB microcomputer communication control terminal.
33	P72	SUB SYNC1	O	N	Eu	—	Z	H	SUB microcomputer sync output.
34	P73	B. DOWN	I	—	Eu	Lv	Z	—	Detect for stoping power supply (L: stoping power supply).
35	P74		I	—	—	—	Z	L	Connect with GND.
36	P75		I	—	—	—	Z	L	Connect with GND.
37	P76		I	—	—	—	Z	L	Connect with GND.
38	P77		I	—	—	—	Z	L	Connect with GND.
39	P00	A/D RES	O	C	—	—	Z	L	A/D control terminal (L: reset, H: analog input).
40	P01		O	N	—	—	Z	L	
41	P02	DIRECT	O	C	—	—	Z	L	Direct mode control terminal (H: Direct).
42	VDD	VDD	I	—	—	—	Z	—	Connect with +5V.

LC7536
(TU: IC101, 107, 108)



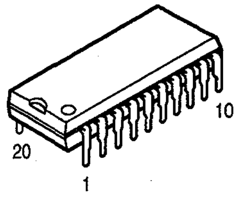

L5dBIN 1
NC 2
LCT1 3
LCT2 4
L5dBOUT 5
L1dBIN 6
NC 7
L1dBOUT 8
LVM 9
VEE 10
NC 11
S 12
VDD 13
Vss 14
NC 15
LC7536
30 R5dBIN
29 NC
28 RCT1
27 RCT2
26 R5dBOUT
25 R1dBIN
24 NC
23 R1dBOUT
22 RVM
21 Vcc
20 NC
19 CE
18 DI
17 CL
16 NC

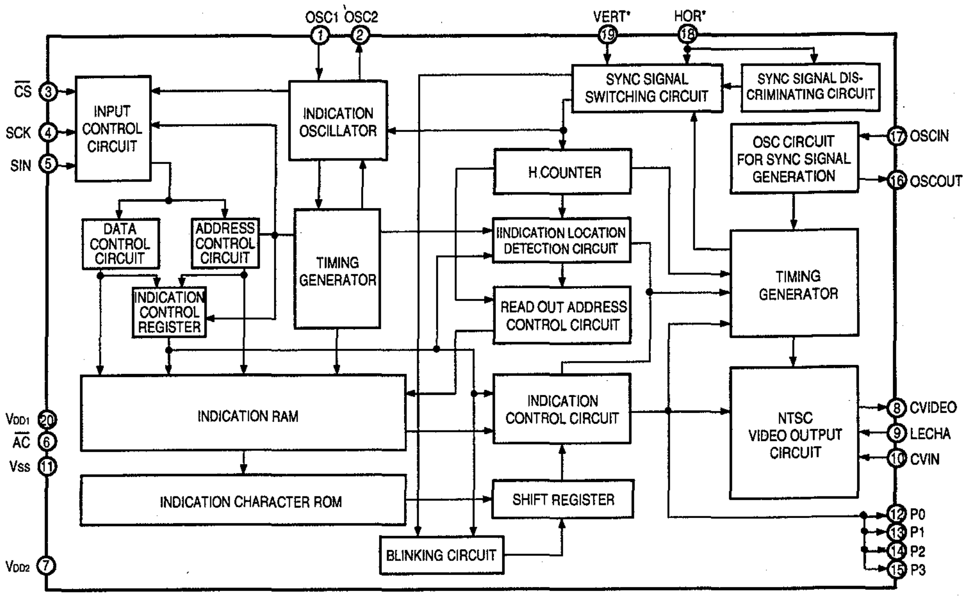

L 5dB OUT 5
L 1dB IN 6
L 1dB OUT 8
R 1dB OUT 23
R 1dB IN 25
R 5dB OUT 26
L 5dB IN 1
L CT1 3
L CT2 4
L VM 9
30 R 5dB IN
28 R CT1
27 R CT2
22 R VM
S 12
CE 19
CL 17
DI 18
CONTROL
LEVEL SHIFT
ϕL LATCH
ϕD D SHIFT REGISTER
13 VDD
21 Vcc
14 Vss
10 VEE

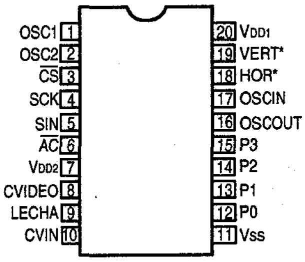
LC7536 Terminal Function

Pin No.	Symbol	I/O	Function
1	L 5dB IN	I	Input terminal for 5dB step attenuator, it should be driven with low impedance path.
2	NC	–	No connection.
3	L CT1	I	For loudness control, connect a capacitor between CT1 and 5dB IN with high frequency compensation, and also connect a capacitor between CT2 and Vm with low frequency compensation.
4	L CT2		
5	L 5dBOUT	O	Output terminal for 5dB step attenuator with approx. 1Mohm load impedance.
6	L 1dBIN	I	Input terminal for 1dB step attenuator, it should be driven with low impedance.
7	NC	–	No connection.
8	L 1dBOUT	O	Output terminal for 1dB step attenuator with approx. 47kohm ~ 1Mohm load impedance.
9	L VM		Common terminal for volume control.
10	VEE	I	Connect to power supply.
11	NC	–	No connection.
12	S		Selection terminal for address code during data format.
13	VDD	I	Connect to power supply (Pay attention to the rising time so that Vcc does rise up faster than VDD when the power turns).
14	Vss	I	Connect to power supply.
15	NC	–	No connection.
16	NC	–	No connection.
17	CL	I	Input terminal for controlling LC7536 serial data with 0 ~ 5V amplitude.
18	DI		
19	CE		
20	NC	–	No connection.
21	Vcc	I	Connect power supply (Pay attention to the rising time so that Vcc does not rise up faster than VDD when the power turns).
22	R VM		Common terminal for volume control.
23	R 1dBOUT	O	Output terminal for 1dB step attenuator with approx. 47kohm ~ 1Mohm load impedance.
24	NC	–	No connection.
25	R 1dBIN	I	Input terminal for 1dB step attenuator, it should be driven with low impedance.
26	R 5dBOUT	O	Output terminal for 5dB step attenuator with approx. 1Mohm load impedance.
27	R CT2	I	For loudness control, connect a capacitor between CT1 and 5dBIN with high frequency compensation, and also connect a capacitor between CT2 and Vm with low frequency compensation.
28	R CT1		
29	NC	–	No connection.
30	R SdBIN	I	Input terminal for 5dB step attenuator, it should be driven with low impedance path.

M35015-204SP
(VI: IC308)



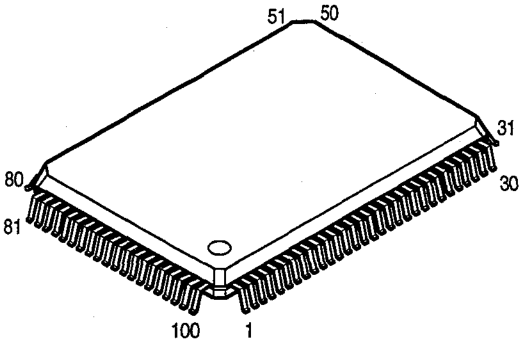

OSC1
OSC2
VERT*
HOR*
CS
SCK
SIN
INPUT CONTROL CIRCUIT
INDICATION OSCILLATOR
SYNC SIGNAL SWITCHING CIRCUIT
SYNC SIGNAL DIS-CRIMINATING CIRCUIT
OSC CIRCUIT FOR SYNC SIGNAL GENERATION
OSCIN
OSCOUT
H.COUNTER
DATA CONTROL CIRCUIT
ADDRESS CONTROL CIRCUIT
TIMING GENERATOR
INDICATION LOCATION DETECTION CIRCUIT
INDICATION CONTROL REGISTER
READ OUT ADDRESS CONTROL CIRCUIT
TIMING GENERATOR
INDICATION RAM
INDICATION CONTROL CIRCUIT
NTSC VIDEO OUTPUT CIRCUIT
VDD1
AC
Vss
CVIDEO
LECHA
CVIN
INDICATION CHARACTER ROM
SHIFT REGISTER
P0
P1
P2
P3
VDD2
BLINKING CIRCUIT

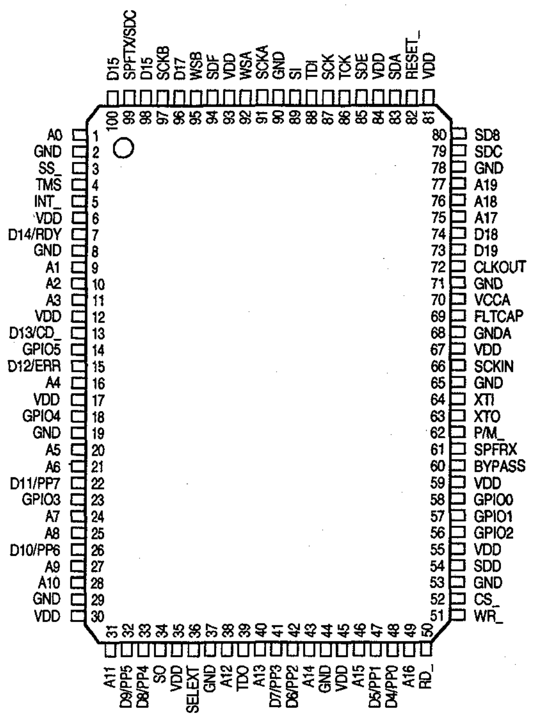

OSC1 1
OSC2 2
CS 3
SCK 4
SIN 5
AC 6
VDD2 7
CVIDEO 8
LECHA 9
CVIN 10
20 VDD1
19 VERT*
18 HOR*
17 OSCIN
16 OSCOUT
15 P3
14 P2
13 P1
12 P0
11 Vss

M35015-204SP Terminal Function

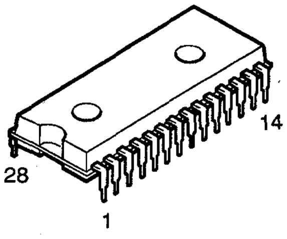
Pin No.	Symbol	Name	I/O	Function
1	OSC1	Osc. circuit ext.	I	External terminal for indication oscillator circuit. Standard OSC. freq. is approx. 7MHz.
2	OSC2	terminal.	O	With this OSC. freq., decides horizontal indicatin and character width.
3	$\overline{CS}$	Chip select input	I	Chip select terminal and turns to "L" when transfer serial data. Hysteresis input. Pull up resistor is built-in.
4	SCK	Serial clock input	I	Takes in serial data of SIN at SCK rise when CS terminal is in "L". Hysteresis input. Pull up rersist is built-in.
5	SIN	Serial data input	I	Serial input of register for indication control and data, and address for indication data memory. Hysteresis input. Pull up rersistor is built-in.
6	$\overline{AC}$	Auto-clear input	I	Resets internal circuit of IC at "L" mode. Hysteresi input. Pull up resistor is built-in.
7	VDD2	Power supply	—	Power supply terminal of analog system. Connect to +5V.
8	CVIDEO	Combined video output	O	Output terminal of combined video signal. Outputs 2Vp-p combined signal. Character output, etc. Overlap CVIN signal and outputs at superimpose.
9	LECHA	Character level input	I	Input terminal deciding character output level in combined video signal. color of character is white.
10	CVIN	Combined video input	I	Input terminal of external combined video signal. Character output etc. overlap this external combined video signal.
11	Vss	Ground	—	Ground terminal. Connect to GND.
12	P0	Output port p0	O	General output or character background signal BL NK1* output is switchable. Polarity can be selected at ROM mask.
13	P1	Output port P1	O	General output or character background signal CO1* output is switchable. Polarity can be selected at ROM mask.
14	P2	Output port P2	O	General output or character background signal BLNK2* output is switchable. Polarity can be selected at ROM mask.
15	P3	Output port P3	O	General output or character background signal CO2* output is switchable. Polarity can be selected at ROM mask.
16	OSCOUT	Ext. terminal for sync sig. OSC. Circuit	O	Terminal for external use of sync signal OSC. circuit. Use the freq.: 14.32MHz at NTSC
17	OSCIN		I	system, 17.73MHz at PAL. system, 14.30MHz at MPAL system.
18	HOR*	Horizontal sync signal	I	Inputs horizontal sync signal. Hysteresis input.
19	VERT*	Vertical sync signal	—	Input vertical sync signal. Hysteresis input. Polarity can be selected at ROM mask.
20	VDD1	Power supply	I	Power supply terminal of digital system. Connect to +5V.

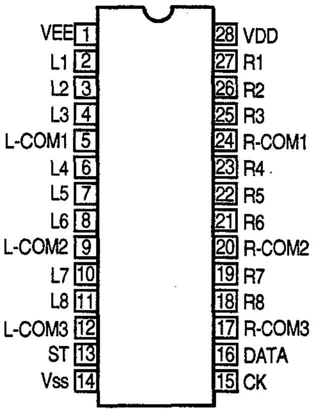
ZR38600 (AU: IC901)

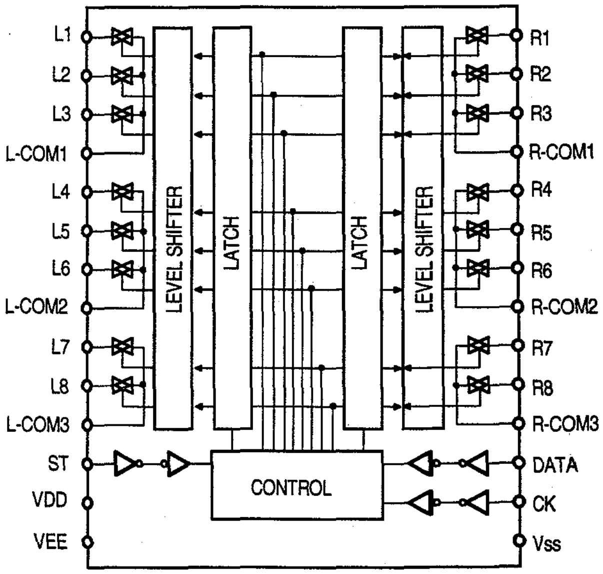

51
50
31
80
30
81
100
1


1 A0
2 GND
3 SS_
4 TMS
5 INT_
6 VDD
7 D14/RDY
8 GND
9 A1
10 A2
11 A3
12 VDD
13 D13/CD_
14 GPIO5
15 D12/ERR
16 A4
17 VDD
18 GPIO4
19 GND
20 A5
21 A6
22 D11/PP7
23 GPIO3
24 A7
25 A8
26 D10/PP6
27 A9
28 A10
29 GND
30 VDD
31 A11
32 D9/PP5
33 D8/PP4
34 SO
35 VDD
36 SELEXT
37 GND
38 A12
39 TDO
40 A13
41 D7/PP3
42 D6/PP2
43 A14
44 GND
45 VDD
46 A15
47 D5/PP1
48 D4/PP0
49 A16
50 RD_
51 WR_
52 CS_
53 GND
54 SDD
55 VDD
56 GPIO2
57 GPIO1
58 GPIO0
59 VDD
60 BYPASS
61 SPFRX
62 P/M_
63 XTO
64 XTI
65 GND
66 SCKIN
67 VDD
68 GNDA
69 FLTCAP
70 VCCA
71 GND
72 CLKOUT
73 D19
74 D18
75 A17
76 A18
77 A19
78 GND
79 SDC
80 SD8
81 VDD
82 RESET_
83 SDA
84 VDD
85 SDE
86 TCK
87 SCK
88 TDI
89 SI
90 GND
91 SCKA
92 WSA
93 VDD
94 SDF
95 WSB
96 D17
97 SCKB
98 D15
99 SPFTX/SDC
100 D15

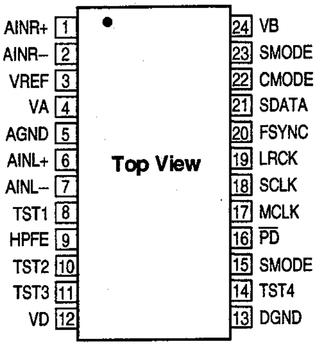
NJU7313AL (TU: IC705)

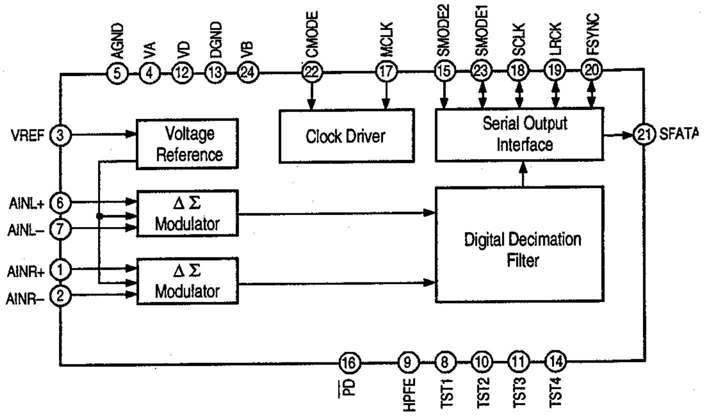



VEE 1
L1 2
L2 3
L3 4
L-COM1 5
L4 6
L5 7
L6 8
L-COM2 9
L7 10
L8 11
L-COM3 12
ST 13
Vss 14
28 VDD
27 R1
26 R2
25 R3
24 R-COM1
23 R4
22 R5
21 R6
20 R-COM2
19 R7
18 R8
17 R-COM3
16 DATA
15 CK


L1
L2
L3
L-COM1
L4
L5
L6
L-COM2
L7
L8
L-COM3
ST
VDD
VEE
LEVEL SHIFTER
LATCH
LATCH
LEVEL SHIFTER
CONTROL
R1
R2
R3
R-COM1
R4
R5
R6
R-COM2
R7
R8
R-COM3
DATA
CK
Vss

AK5351 (AU: IC854)

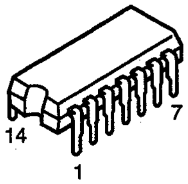

AINR+ 1
AINR– 2
VREF 3
VA 4
AGND 5
AINL+ 6
AINL– 7
TST1 8
HPFE 9
TST2 10
TST3 11
VD 12
Top View
24 VB
23 SMODE
22 CMODE
21 SDATA
20 FSYNC
19 LRCK
18 SCLK
17 MCLK
16 PD
15 SMODE
14 TST4
13 DGND

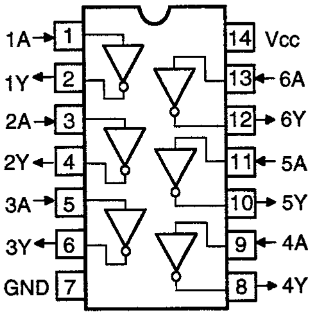

AGND 5
VA 4
VD 12
DGND 13
VB 24
CMODE 22
MCLK 17
SMODE2 15
SMODE1 23
SCLK 18
LRCK 19
FSYNC 20
VREF 3
Voltage Reference
Clock Driver
Serial Output Interface
21 SFATA
AINL+ 6
AINL– 7
ΔΣ Modulator
Digital Decimation Filter
AINR+ 1
AINR– 2
ΔΣ Modulator
16 PD
9 HPFE
8 TST1
10 TST2
11 TST3
14 TST4

AK5351 Terminal Function

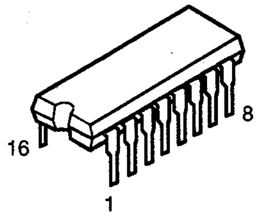
Pin No.	Symbol	I/O	Function
1	AINR+	I	Rch analog non-inverted input pin.
2	AINR–	I	Rch analog inverted input pin
3	VREF	O	Vref. output pin (VA-2.6V)
4	VA	—	Analog part power supply pin (+5V)
5	AGND	—	Analog ground pin
6	AINL+	I	Lch analog non-inverted input pin
7	AINL–	I	Lch analog inverted input pin
8	TST1		Test pin
9	HPFE	I	Hi-pass filter enable pin, "H": ON, "L": OFF
10	TST2		Test pin
11	TEST3		Test pin
12	VD	—	Digital part power supply pin (+5V)
13	DGND	—	Digital ground pin
14	TST4		Test pin
15	SMODE2	I	Interface clock select pin
16	PD	I	Power down pin, "L": power down mode
17	MCLK	I	Master clock input pin, CMODE="H": 384fs, "L": 256fs
18	SCLK	I/O	Serial data clock pin
19	LRCK	I/O	Input channel select pin
20	FSYNC	I/O	Frame sync clock pin
21	SDATA	O	Serial data output pin
22	CMODE	I	Master clock select pin, "H": MCLK=384fs, "L": 256fs
23	SMODE2	I	Interface clock select pin
24	VB	—	Bulk power supply pin (+5V)

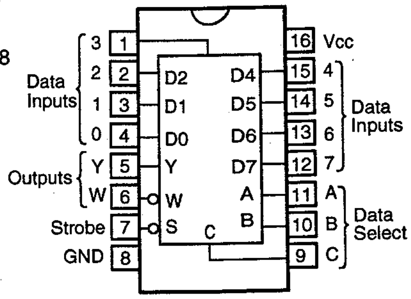
TC74HCU04AP
(VI: IC307)



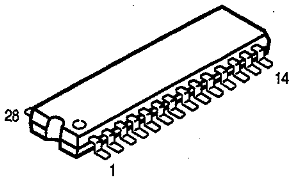

1A 1
1Y 2
2A 3
2Y 4
3A 5
3Y 6
GND 7
14 Vcc
13 6A
12 6Y
11 5A
10 5Y
9 4A
8 4Y

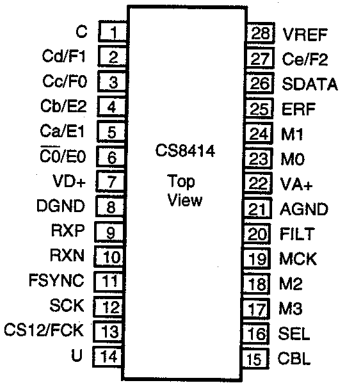
TC74HC151AP
(VI: IC303)

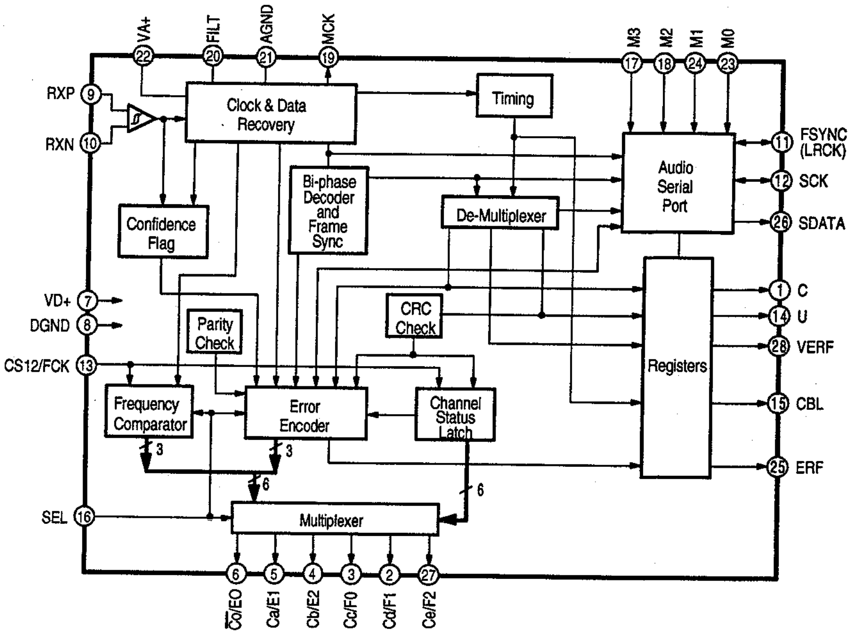



Data Inputs
3 1
2 2 D2
1 3 D1
0 4 D0
Outputs
Y 5 Y
W 6 W
Strobe 7 S
GND 8
C
16 Vcc
D4 15 4
D5 14 5
D6 13 6
D7 12 7
Data Inputs
A 11 A
B 10 B
9 C
Data Select

CS8414CS (AU: IC911)



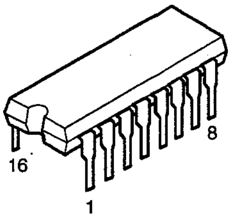

C 1
Cd/F1 2
Cc/F0 3
Cb/E2 4
Ca/E1 5
C0/E0 6
VD+ 7
DGND 8
RXP 9
RXN 10
FSYNC 11
SCK 12
CS12/FCK 13
U 14
CS8414
Top View
28 VREF
27 Ce/F2
26 SDATA
25 ERF
24 M1
23 M0
22 VA+
21 AGND
20 FILT
19 MCK
18 M2
17 M3
16 SEL
15 CBL

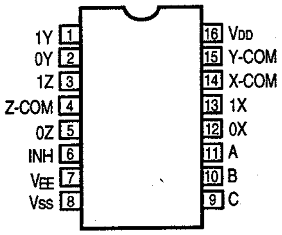

VA+ 22
FILT 20
AGND 21
MCK 19
M3 17
M2 18
M1 24
M0 23
RXP 9
RXN 10
Clock & Data Recovery
Timing
Audio Serial Port
FSYNC (LRCK) 11
SCK 12
SDATA 26
Bi-phase Decoder and Frame Sync
Confidence Flag
De-Multiplexer
VD+ 7
DGND 8
Parity Check
CRC Check
Registers
1 C
14 U
28 VERF
CS12/FCK 13
Frequency Comparator
Error Encoder
Channel Status Latch
15 CBL
25 ERF
3
3
6
6
SEL 16
Multiplexer
6 C0/E0
5 Ca/E1
4 Cb/E2
3 Cc/F0
2 Cd/F1
27 Ce/F2

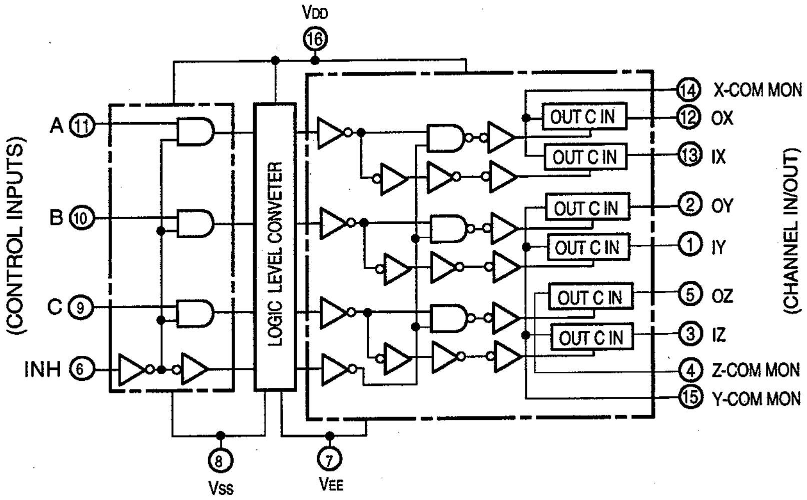
CS8414CS Terminal Function

Pin No.	Symbol	I/O	Function
1	C	I	C.S. bit input.
2	Cd F1	O	C.S. bit output/Frequency indication (H: C.S. bit output, L: Frequency indication).
3	Cc F0		CO="0" in C.S. bit is for professional use, and CO="1" is for general use.
4	Cd E2	O	C.S. bit output/Error indication (H: C.S. bit output, L: Error indication). CO="0" in C.S. bit is for professional use, and CO="1" is for general use.
5	Ca E1		
6	C0/E0		
7	VD+	—	Digital +5V power supply.
8	DGND	—	Connect to digital ground.
9	RXN	I	Differential line receiver signal. Compatible with RS422.
10	RXP		
11	FSYNC	I/O	Frame sync signal.
12	SCK	I/O	Serial clock signal, 32 clock is included with each audio sample in output status.
13	CS12/FCK	I	Channel selection/Reference frequency (H: Channel selection, L: Reference frequency). CS12 selects the channel output to C.S. terminal. "0" is for sub frame 1, and "1" is for sub frame2. Input frequency can be detected by 6.144 MHz clock input to FCK.
14	U	I	User (U) bit terminal.
15	CBL	O	C.S. block output terminal.
16	SEL	I	C.S. F2-F0, E2-E0 selection signal (H: C.S. bit output, L: Frequency/Error indication).
17	M3	I	Serial port mode select signal
18	M2		
19	MCK	I	Master clock signal (Low jitter clock output with 256 times of receiving frequency).
20	FILT	I	Filter terminal, connect resistor 1kohm and capacitor 0.047 µF between this terminal and AGND.
21	AGND	—	Connect to analog ground.
22	VA+	—	Analog +5V power supply (Noise for this power supply should be minized as lower as possible since it affects jitter's performance of playback clock directly).
23	M0	I	Serial port mode select signal.
24	M1		
25	ERF	O	Error flag aignal.
26	SDATA	O	Serial data signal.
27	Ce F2	O	C.S. bit output/Frequency indication (H: C.S. bit output, L: Frequency indication). CO="0" in C.S. bit is for professional use, and CO="1" is for general use.
28	VERF	O	Parity and Error flag signal.

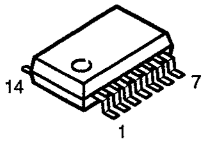
TC4053BP (VI: IC402)

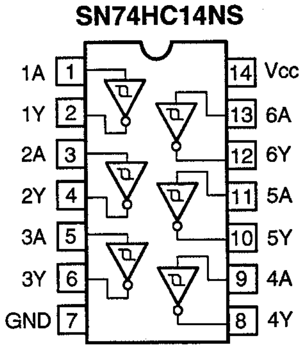


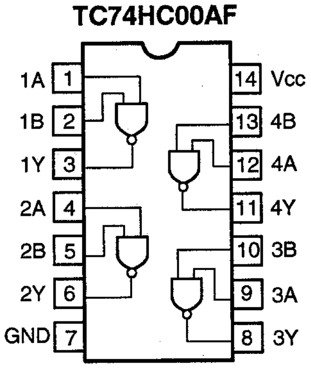

1Y 1
0Y 2
1Z 3
Z-COM 4
0Z 5
INH 6
VEE 7
VSS 8
16 VDD
15 Y-COM
14 X-COM
13 1X
12 0X
11 A
10 B
9 C

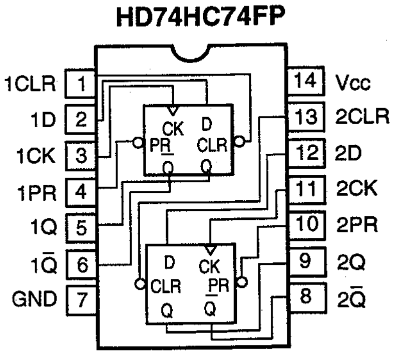

VDD
16
A 11
B 10
C 9
INH 6
(CONTROL INPUTS)
LOGIC LEVEL CONVETER
OUT C IN
14 X-COM MON
12 OX
13 IX
2 OY
1 IY
5 OZ
3 IZ
4 Z-COM MON
15 Y-COM MON
(CHANNEL IN/OUT)
8 VSS
7 VEE

SN74HC14NS (AU: IC906)
TC74HC00AF (AU: IC904)
HD74HC74FP (AU: IC909)

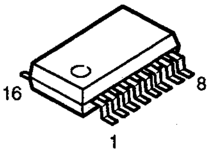


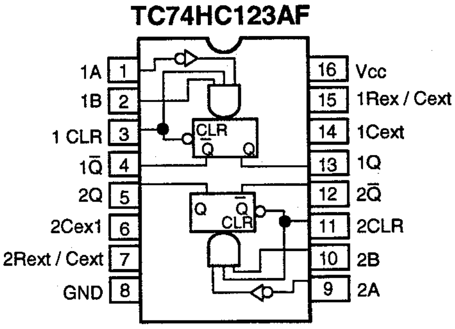

SN74HC14NS
1A 1
1Y 2
2A 3
2Y 4
3A 5
3Y 6
GND 7
14 Vcc
13 6A
12 6Y
11 5A
10 5Y
9 4A
8 4Y

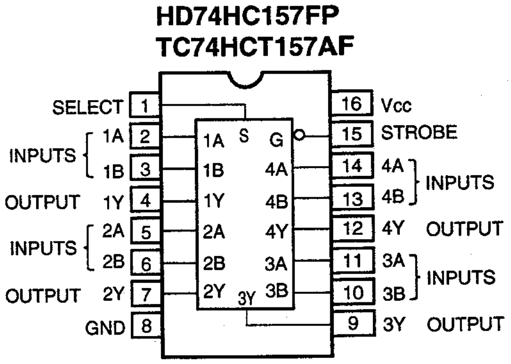

TC74HC00AF
1A 1
1B 2
1Y 3
2A 4
2B 5
2Y 6
GND 7
14 Vcc
13 4B
12 4A
11 4Y
10 3B
9 3A
8 3Y


HD74HC74FP
1CLR 1
1D 2
1CK 3
1PR 4
1Q 5
1Q̄ 6
GND 7
14 Vcc
13 2CLR
12 2D
11 2CK
10 2PR
9 2Q
8 2Q̄
CK
D
PR
CLR
Q
Q̄

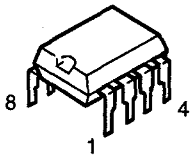
TC74HC123AF (AU: IC905, 907)
TC74HCT157AF (AU: IC908)
HD74HC157FP (AU: IC910)

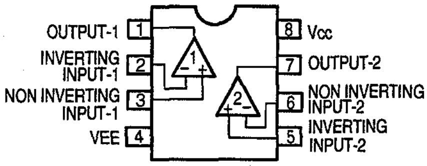



TC74HC123AF
1A 1
1B 2
1 CLR 3
1Q̄ 4
2Q 5
2Cex1 6
2Rext / Cext 7
GND 8
16 Vcc
15 1Rex / Cext
14 1Cext
13 1Q
12 2Q̄
11 2CLR
10 2B
9 2A
CLR
Q
Q̄

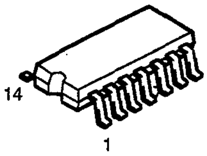

HD74HC157FP
TC74HCT157AF
SELECT 1
INPUTS 1A 2
1B 3
OUTPUT 1Y 4
INPUTS 2A 5
2B 6
OUTPUT 2Y 7
GND 8
16 Vcc
15 STROBE
14 4A
13 4B
INPUTS
12 4Y OUTPUT
11 3A
10 3B
INPUTS
9 3Y OUTPUT
S
G
1A
1B
1Y
2A
2B
2Y
3Y
4A
4B
4Y
3A
3B

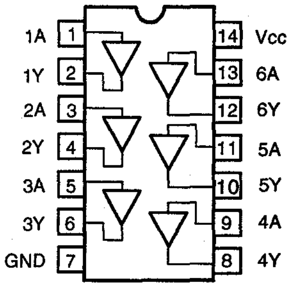
NJM2068DDC
(VI: IC201) (CO: IC120)



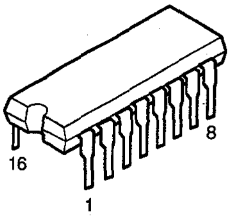

OUTPUT-1 1
INVERTING INPUT-1 2
NON INVERTING INPUT-1 3
VEE 4
8 Vcc
7 OUTPUT-2
6 NON INVERTING INPUT-2
5 INVERTING INPUT-2
1
2

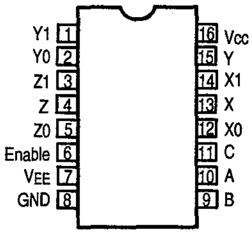
TC74HCT7007AF
(AU: IC902)




1A 1
1Y 2
2A 3
2Y 4
3A 5
3Y 6
GND 7
14 Vcc
13 6A
12 6Y
11 5A
10 5Y
9 4A
8 4Y

MC74HC4053N
(VI: IC304)

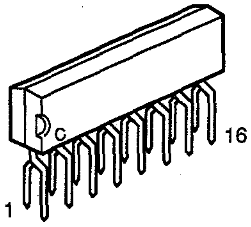


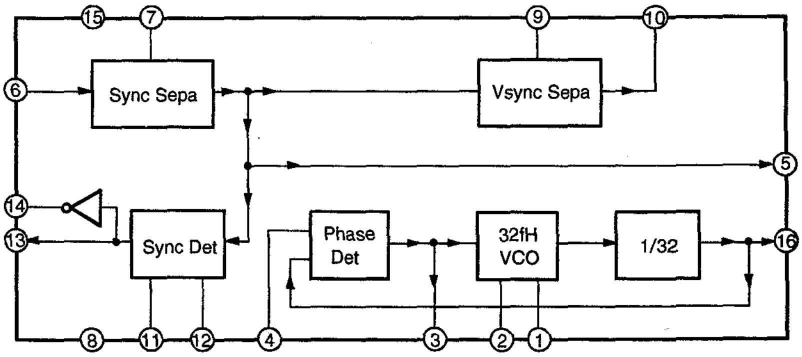

Y1 1
Y0 2
Z1 3
Z 4
Z0 5
Enable 6
VEE 7
GND 8
16 Vcc
15 Y
14 X1
13 X
12 X0
11 C
10 A
9 B

Control Inputs				
	Select			
Enable	C	B	A	ON Switches
L	L	L	L	Z0 Y0 X0
L	L	L	H	Z0 Y0 X1
L	L	H	L	Z0 Y1 X0
L	L	H	H	Z0 Y1 X1
L	H	L	L	Z1 Y0 X0
L	H	L	H	Z1 Y0 X1
L	H	H	L	Z1 Y1 X0
L	H	H	H	Z1 Y1 X1
H	X	X	X	None

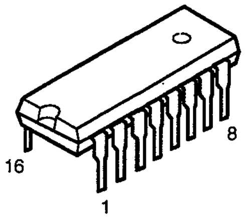
X = Don't Care

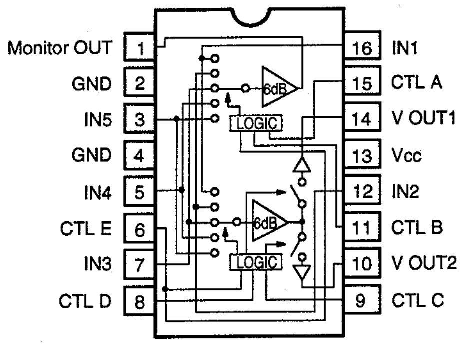
NJM2229S (VI: IC305)




⑮
⑦
⑨
⑩
⑥
Sync Sepa
Vsync Sepa
⑤
⑭
⑬
Sync Det
Phase Det
32fH VCO
1/32
⑯
⑧
⑪
⑫
④
③
②
①

BA7625 (VI: IC302, 401)
BA7626 (VI: IC301)




Monitor OUT 1
GND 2
IN5 3
GND 4
IN4 5
CTL E 6
IN3 7
CTL D 8
16 IN1
15 CTL A
14 V OUT1
13 Vcc
12 IN2
11 CTL B
10 V OUT2
9 CTL C
6dB
LOGIC
6dB
LOGIC

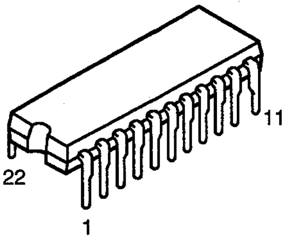
A	B	E	MONITOR OUT
L	L	*	IN 1
H	L	*	IN 2
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

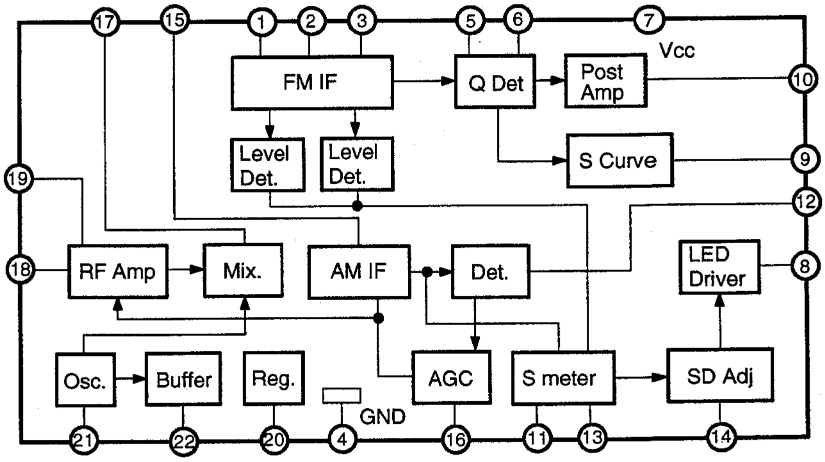
C	D	E	V OUT 1
L	L	*	—
H	L	*	IN 2
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

C	D	E	V OUT 2
L	L	*	IN 1
H	L	*	—
L	H	*	IN 3
H	H	L	IN 4
H	H	H	IN 5

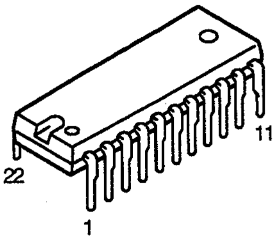
Note 1: * mark means that feasible for either H or L.
Note 2: Each input terminal is provided with sink chip clamp (BA7625).
Each input terminal takes 20kohm at the end (BA7626).

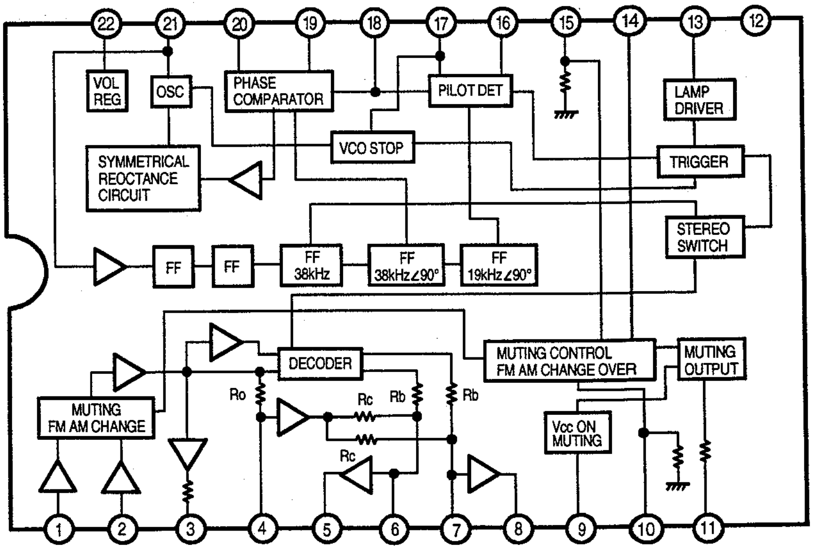
LA1265 (S)
(TU: IC502)



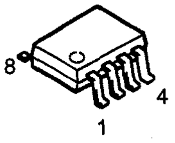

17
15
1
2
3
5
6
7
Vcc
FM IF
Q Det
Post Amp
10
Level Det.
Level Det.
S Curve
9
19
12
18
RF Amp
Mix.
AM IF
Det.
LED Driver
8
Osc.
Buffer
Reg.
GND
AGC
S meter
SD Adj
21
22
20
4
16
11
13
14

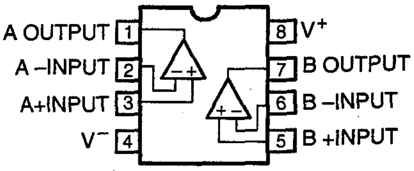
LA3401
(TU: IC503)



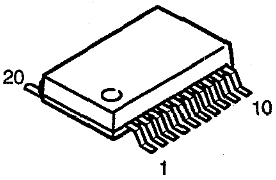

22
21
20
19
18
17
16
15
14
13
12
VOL REG
OSC
PHASE COMPARATOR
PILOT DET
LAMP DRIVER
VCO STOP
SYMMETRICAL REOCTANCE CIRCUIT
TRIGGER
STEREO SWITCH
FF
FF
FF 38kHz
FF 38kHz∠90°
FF 19kHz∠90°
DECODER
MUTING CONTROL FM AM CHANGE OVER
MUTING OUTPUT
MUTING FM AM CHANGE
Ro
Rc
Rb
Rb
Rc
Vcc ON MUTING
1
2
3
4
5
6
7
8
9
10
11

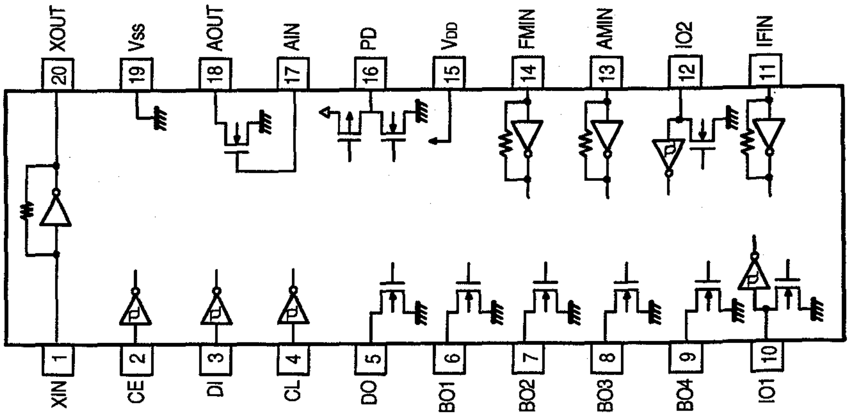
BA15218F (AU: IC731)
(CO: IC282)
BA4510 (AU: IC851, 852)
NJM2068MD (AU: IC601, 702, 703, 752, 753, 802, 803, 804)
(CO: IC281)
(TU: IC103, 104, 105, 106, 109, 110)
NJM5532MD (AU: IC606)



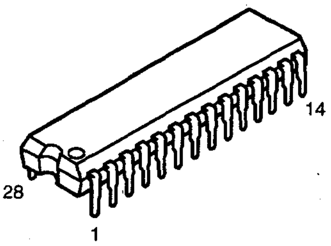

A OUTPUT 1
A -INPUT 2
A+INPUT 3
V⁻ 4
8 V⁺
7 B OUTPUT
6 B -INPUT
5 B +INPUT

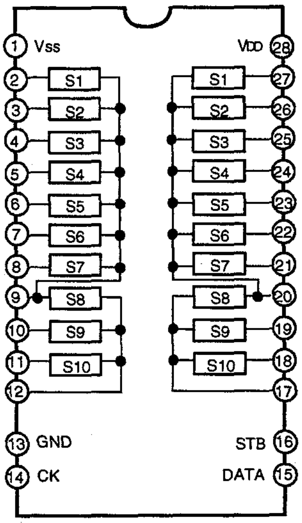
LC7213M (TU: IC507)




20 XOUT
19 Vss
18 AOUT
17 AIN
16 PD
15 VDD
14 FMIN
13 AMIN
12 IO2
11 IFIN
1 XIN
2 CE
3 DI
4 CL
5 DO
6 BO1
7 BO2
8 BO3
9 BO4
10 IO1

TC9273N-007 (AU: IC603)

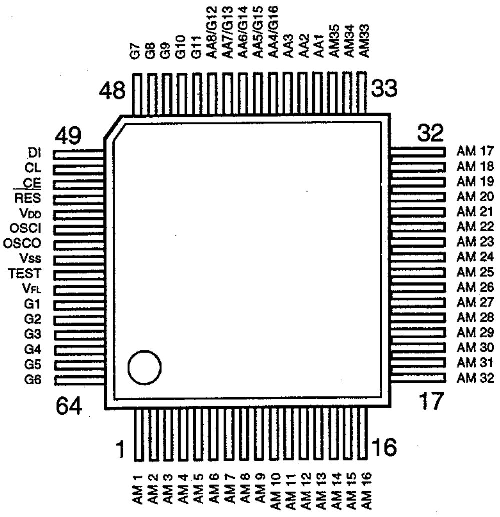



1 Vss
VDD 28
2 S1
3 S2
4 S3
5 S4
6 S5
7 S6
8 S7
9 S8
10 S9
11 S10
12
S1 27
S2 26
S3 25
S4 24
S5 23
S6 22
S7 21
S8 20
S9 19
S10 18
17
13 GND
14 CK
STB 16
DATA 15

TC9273N Terminal Function

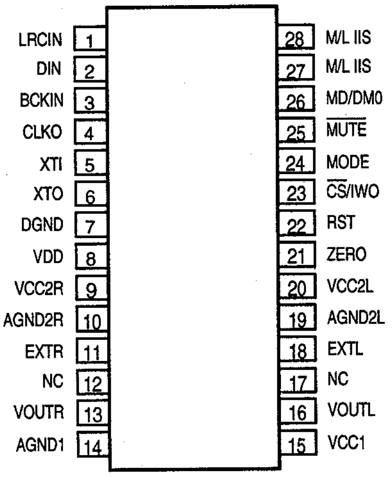
Pin No.	Symbol	Name	Function	Note
1	Vss	–Power Terminal	Dual Power Use: VDD = 8.0~17 V GND = 0V Vss = –8.0~17V Signal Power Use: VDD = 8.0~18V Vss = GND = 0V	—
13	GND	Digital Ground		
28	VDD	+Power Terminal		
2~12 17~27	S1~11	I/O Terminal	Input terminal of analog switch.	—
14	CK	Clock Input	Clock input for data transfer.	Low level Border Input Terminal
15	DATA	Data Input	Serial input for switch setting.	
16	STB	Strobe Input	Strobe input for data writing..	

LC75711NE (VI: IC102)


G7
G8
G9
G10
G11
AA8/G12
AA7/G13
AA6/G14
AA5/G15
AA4/G16
AA3
AA2
AA1
AM35
AM34
AM33
48
33
49
32
DI
CL
CE
RES
VDD
OSCI
OSCO
VSS
TEST
VFL
G1
G2
G3
G4
G5
G6
AM 17
AM 18
AM 19
AM 20
AM 21
AM 22
AM 23
AM 24
AM 25
AM 26
AM 27
AM 28
AM 29
AM 30
AM 31
AM 32
64
17
1
16
AM 1
AM 2
AM 3
AM 4
AM 5
AM 6
AM 7
AM 8
AM 9
AM 10
AM 11
AM 12
AM 13
AM 14
AM 15
AM 16

Symbol	Function
V_{DD}	Power terminal +5V
Vss	Power terminal GND
V_{FL}	Power terminal FL drive
DI CL CE	Serial data transfer terminal DI: Data CL: Clock CE: Chip enable
OSCI OSCO	External CR connecting terminal
$\overline{RES}$	System reset terminal
AM1~AM35 AA1~AA3	Anode output terminal
AA4/G16 AA5/G15 AA6/G14 AA7/G13 AA8/G12	Anode/Grid output terminal
G1~G11	Grid output terminal
TEST	LSI test terminal

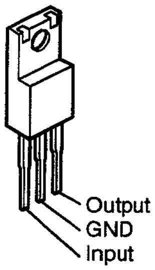
PCM1716E (AU: IC701, 751, 801)


LRCIN
1
DIN
2
BCKIN
3
CLKO
4
XTI
5
XTO
6
DGND
7
VDD
8
VCC2R
9
AGND2R
10
EXTR
11
NC
12
VOUTR
13
AGND1
14
28
M/L IIS
27
M/L IIS
26
MD/DM0
25
MUTE
24
MODE
23
CS/IWO
22
RST
21
ZERO
20
VCC2L
19
AGND2L
18
EXTL
17
NC
16
VOUTL
15
VCC1

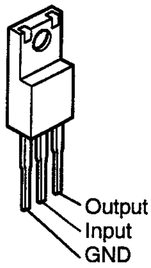
Pin No.	Name	I/O	Description
1	LRCIN	I	Left & Right clock input. This clock is equal to the sampling rate-fs. *1
2	DIN	I	Serial audio data input.
3	BCKIN	O	Bit clock input for serial audio data.
4	CLKO	—	Buffered output of oscillator. Equivalent to system clock.
5	XTI	—	Oscillator input (Extermal clock input).
6	XTO	I	Oscillator output.
7	DGND	I	Digital ground.
8	VDD		Digital power. +5V
9	VCC2R	I	Digital power. +5V
10	AGND2R		Analog power. +5
11	EXTR		R-ch, common pin of analog amp.
12	NC	—	No connection.
13	VOUTR	—	R-ch, analog voltage output of audio signal.
14	AGND1		Analog ground
15	VCC1	I	Analog power. +5V
16	VOUTL	I	L-ch, analog voltage output of audio signal.
17	NC	I	Non connection.
18	EXTL	I/O	L-ch, common pin of analog output amp.
19	AGND2L	I/O	Analog ground.
20	VCC2L	I/O	Analog power. +5V
21	ZERO	O	Zero data flag.
22	RST	I	Reset. When this pin is low, the DF & modulations are held in reset. *2
23	CS/IWO	I	Chip select / Input format selection When this pin is low, the MODE Control is effective. *3
24	MODE	—	Mode control Select. (H: Software, L: Hardware) *2
25	MUTE		Mute control. *2
26	MD / DM0		Mode control, data / De-emphasis selection 1. *2
27	MC / DM1		Mode control, BCK / De-emphasis selection 2. *2
28	ML / IIS		Mode control, WDCK / input format selection. *2

NOTE1: Pins 1, 2, 3; Schmitt Trigger input.
NOTE2: Pins 22, 24, 25, 26, 27, 28; Schmitt Trigger input with pull-up resister.
NOTE3: Pin 23; Schmitt trigger input with pull-down resister.

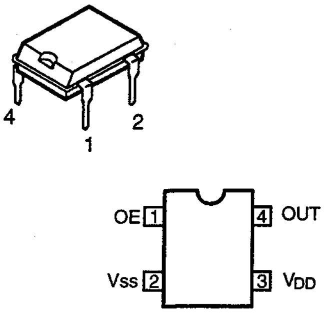
NJM7805FA (S) (PA: IC506, 507)
NJM7806FA (S) (PA: IC502, 505)
NJM7812FA (S) (PA: IC503)
BA033T (AU: IC900)


Output
GND
Input

NJM7912FA (PA: IC504)

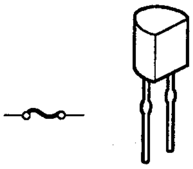

Output
Input
GND

SG-531PH (12.288MHz)
(AU: IC855)


4
2
1
OE 1
Vss 2
4 OUT
3 VDD

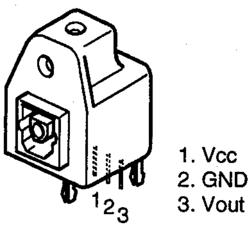
● IC PROTECTOR

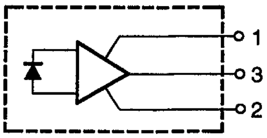
ICP-N15 (PA: IC501)



● OPTICAL

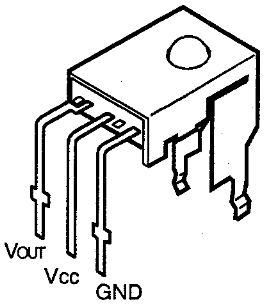
INPUT
GP1F37R
(VI: IC306)

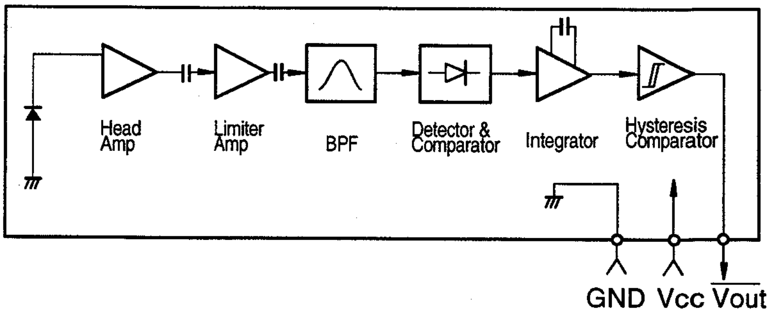

1
2
3
1. Vcc
2. GND
3. Vout



● OTHER

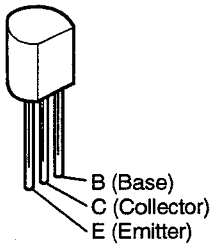
GP1U271X (Remote Control Sensor)
(VI: IC101)


VOUT
Vcc
GND

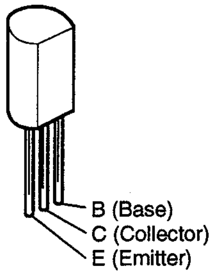

Head Amp
Limiter Amp
BPF
Detector & Comparator
Integrator
Hysteresis Comparator
GND
Vcc
Vout

TRANSISTORS

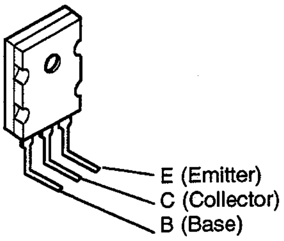
2PA1015GR
2SA970 (BL)
2SA988 (E/F)
2PA1815 (BL)
2SC1841 (E/F)
2SC2878 (A/B)


B (Base)
C (Collector)
E (Emitter)

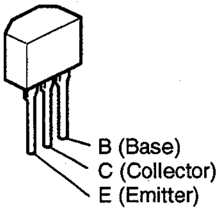
2SC2705 (O)/(Y)


B (Base)
C (Collector)
E (Emitter)

2SA1489 (O/P/Y)
2SA1491 (O/P/Y)
2SC3855 (O/P/Y)

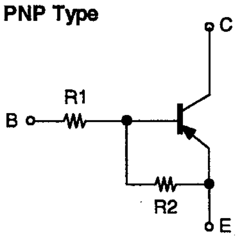

E (Emitter)
C (Collector)
B (Base)

DTA114ES
DTC114ES


B (Base)
C (Collector)
E (Emitter)

DTA114ES

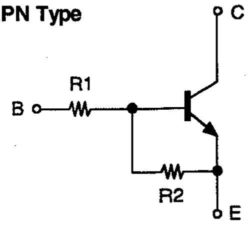
PNP Type



	R1	R2
DTA114ES	10kohm	10kohm

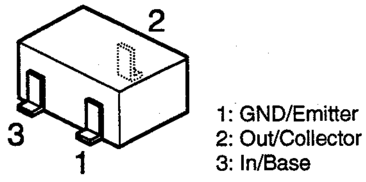
DTC114ES

NPN Type



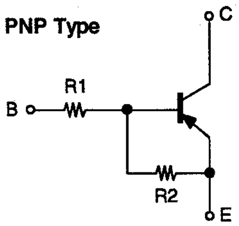
	R1	R2
DTC114ES	10kohm	10kohm

DTA114TK
DTA114EK
DTA144EK
DTC114EK
DTC144EK
DTC323TK
RN2402


2
3
1
1: GND/Emitter
2: Out/Collector
3: In/Base

DTA114TK
DTA114EK
DTA144EK
RN2402

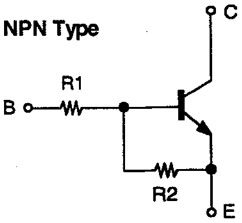
PNP Type



	R1	R2
DTA114TK	10kohm	–
DTA114EK	10kohm	10kohm
DTA144EK	47kohm	47kohm
RN2402	10kohm	10kohm

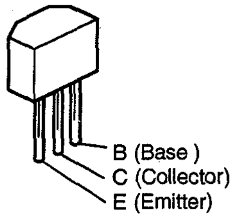
DTC114EK
DTC144EK
DTC323TK

NPN Type

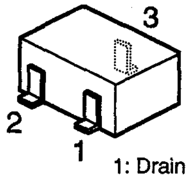


	R1	R2
DTC114EK	10kohm	10kohm
DTC144EK	47kohm	47kohm
DTC323TK	2.2kohm	–

2SA933S (S)
2SC3311A
2SC1740S (S)

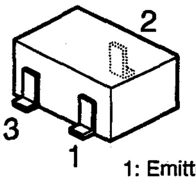

B (Base)
C (Collector)
E (Emitter)

2SK209 (GR)



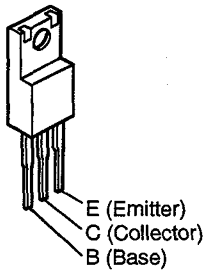
1: Drain
2: Source
3: Gate

2SC2996 (Y)
2SC3326 (A/B)
2SD601A

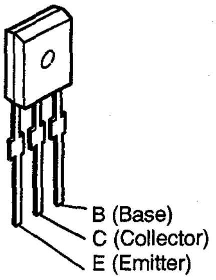


1: Emitter
2: Collector
3: Base

2SA1725 (O/P/Y)
2SC4495

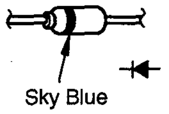

E (Emitter)
C (Collector)
B (Base)

2SB1328 (Q)
2SD2004 (Q)

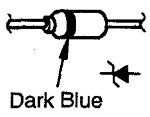

B (Base)
C (Collector)
E (Emitter)

● DIODES (included LED)

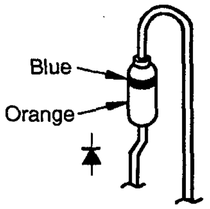
1SS270A



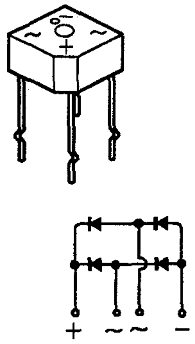
MTZJ3.3A MTZJ7.5A
MTZJ5.6A MTZJ9.1A
MTZJ6.2A MTZJ36A



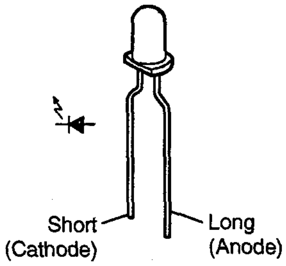
1SR35-200A


Blue
Orange

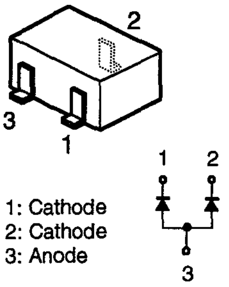
S4VB20
(PA: D518, 519, 520)



SEL1210S (Red)
(VI: LD101, 102, 104)
SEL1410E (Green)
(VI: LD103)

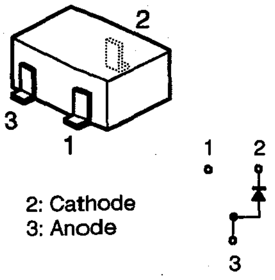

Short
(Cathode)
Long
(Anode)

MA151WK



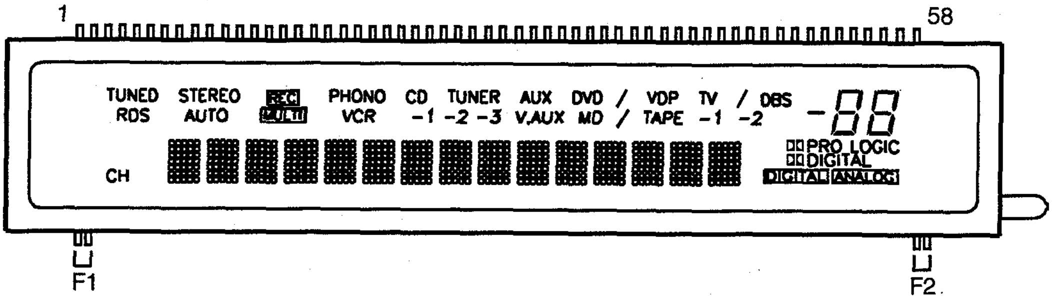
1: Cathode
2: Cathode
3: Anode

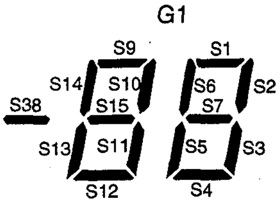
MA151A

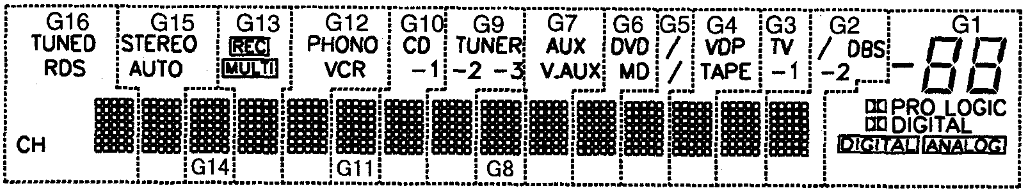


2: Cathode
3: Anode

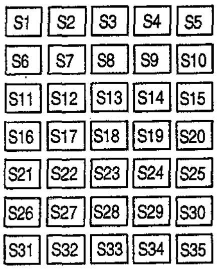
FL DISPLAY CM1690C (VI : FL101)


1
58
TUNED
RDS
STEREO
AUTO
REC
MULTI
PHONO
VCR
CD
-1
TUNER
-2 -3
AUX
V.AUX
DVD
MD
/
/
VDP
TAPE
TV
-1
/ DBS
-2
CH
PRO LOGIC
DIGITAL
DIGITAL
ANALOG
F1
F2


G1
S9
S1
S14
S10
S6
S2
S38
S15
S7
S13
S11
S5
S3
S12
S4


G16
TUNED
RDS
G15
STEREO
AUTO
G13
REC
MULTI
G12
PHONO
VCR
G10
CD
-1
G9
TUNER
-2 -3
G7
AUX
V.AUX
G6
DVD
MD
G5
/
/
G4
VDP
TAPE
G3
TV
-1
G2
/ DBS
-2
G1
PRO LOGIC
DIGITAL
DIGITAL
ANALOG
CH
G14
G11
G8

G2~G16


S1 S2 S3 S4 S5
S6 S7 S8 S9 S10
S11 S12 S13 S14 S15
S16 S17 S18 S19 S20
S21 S22 S23 S24 S25
S26 S27 S28 S29 S30
S31 S32 S33 S34 S35

Pin Assignment

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CONNECTION	F1	F1	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18
PIN NO.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CONNECTION	S19	S20	S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38
PIN NO.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58		
CONNECTION	G16	G15	G14	G13	G12	G11	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1	F2	F2		

F1,F2 : Filament
G1~G16 : Grid
S1~S38 : Anode

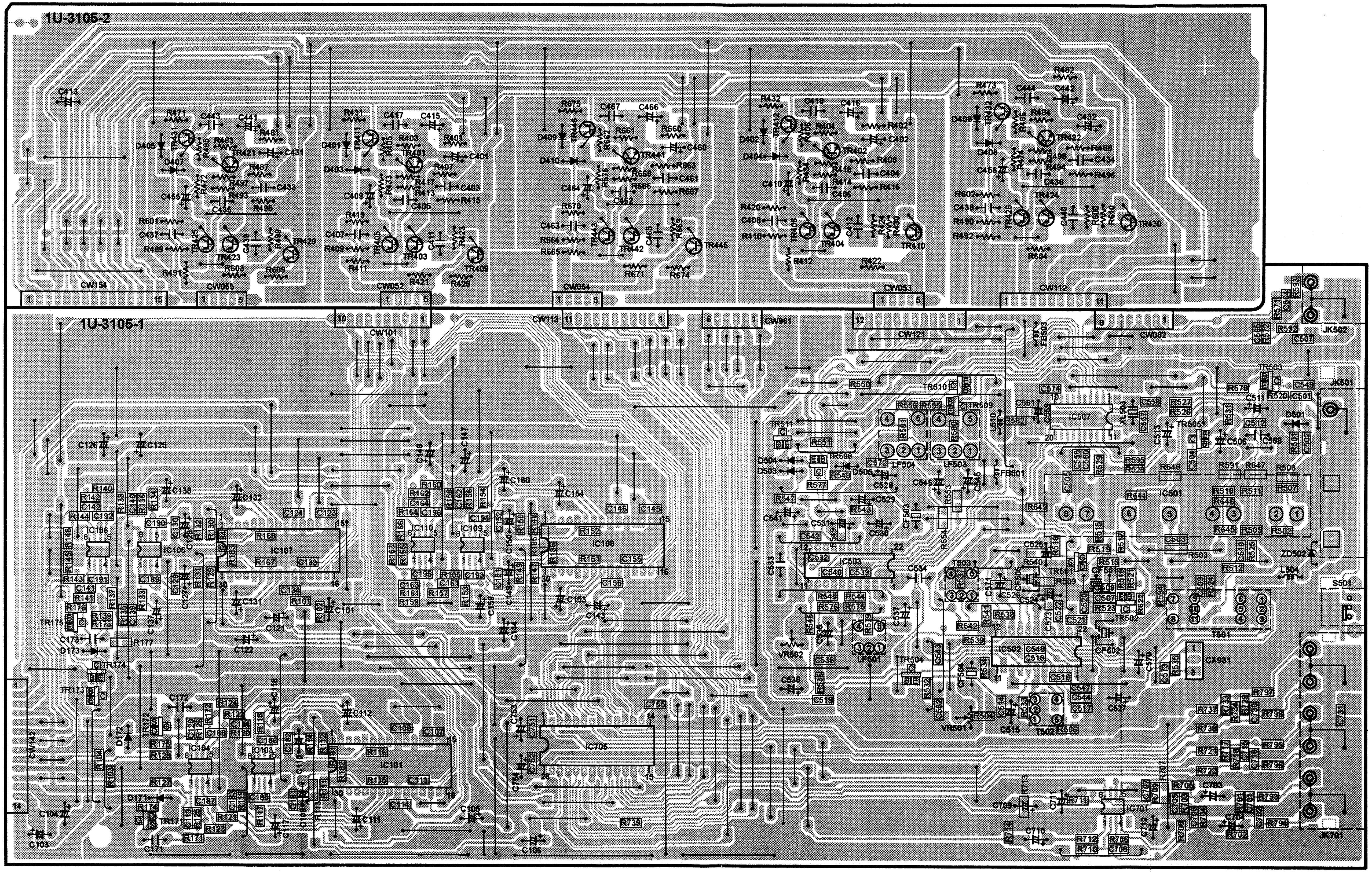
Anode & Grid Assignment

	G1	G2~G16		G1	G2~G16		G1	G2~G16		G1	G2~G16
S1	S1	S1	S10	S10	S10	S19	——	S19	S28	——	S28
S2	S2	S2	S11	S11	S11	S20	——	S20	S29	——	S29
S3	S3	S3	S12	S12	S12	S21	——	S21	S30	——	S30
S4	S4	S4	S13	S13	S13	S22	——	S22	S31	——	S31
S5	S5	S5	S14	S14	S14	S23	——	S23	S32	——	S32
S6	S6	S6	S15	S15	S15	S24	——	S24	S33	——	S33
S7	S7	S7	S16	——	S16	S25	——	S25	S34	——	S34
S8		S8	S17	◻◻DIGITAL	S17	S26	——	S26	S35	——	S35
S9	S9	S9	S18	◻◻PRO LOGIC	S18	S27	——	S27			

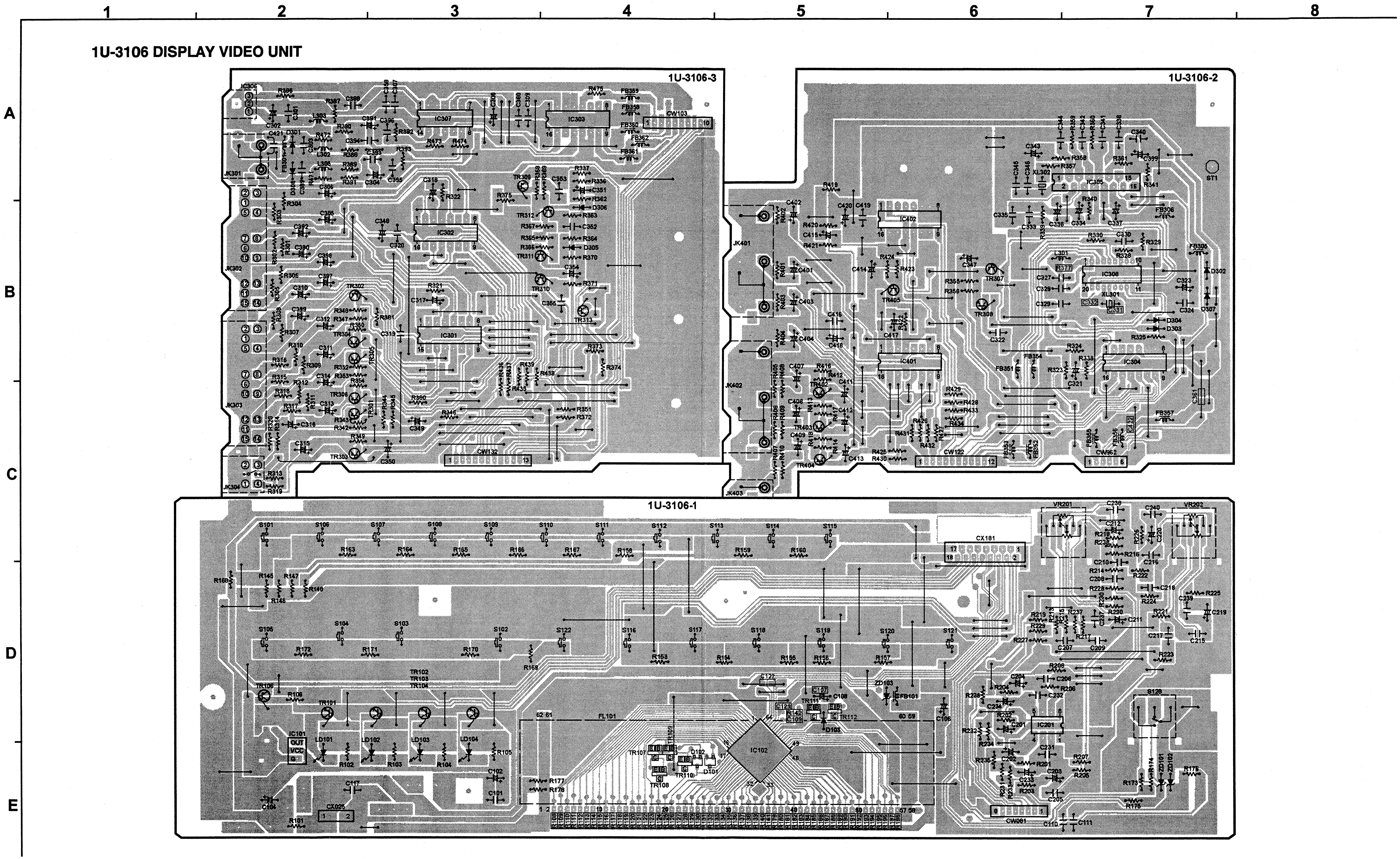
	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16
S36	DIGITAL	/	TV	VDP	/(DVD)	DVD	AUX	——	TUNER	CD	——	PHONO	REC	——	STEREO	TUNED
S37	ANALOG		-1	TAPE	/(MD)	MD	V.MAX	——	-2	-1	——	VCR	MULTI	——	AUTO	RDS
S38	S38	DBS	——	——	——	——	——	——	-3	——	——	——	——	——	——	CH

PRINTED WIRING BOARD PATTERNS

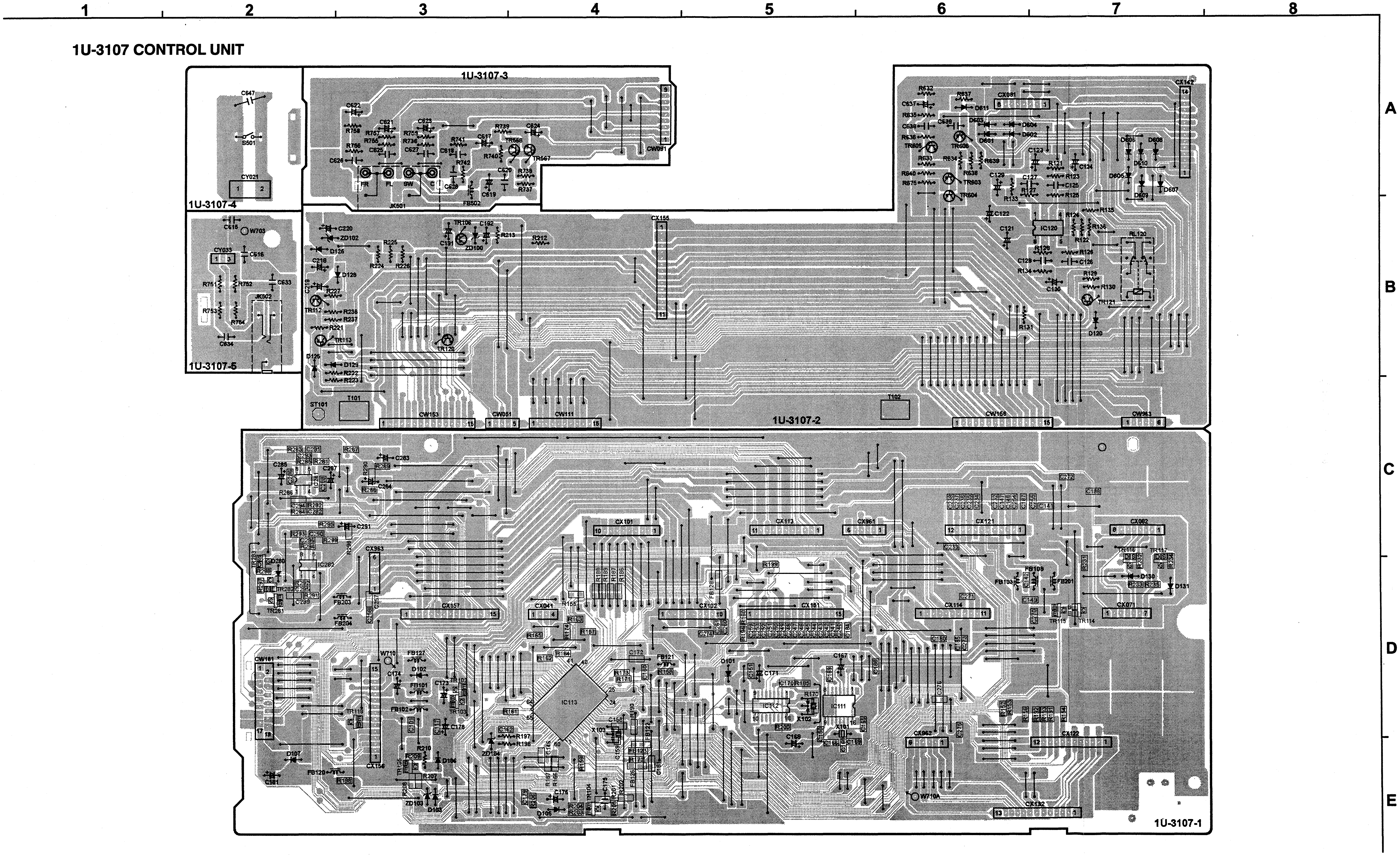
1U-3105 TUNER AMP.UNIT


1
2
3
4
5
6
7
8
A
B
C
D
E
1U-3105-2
1U-3105-1
CW154
CW055
CW052
CW054
CW053
CW112
CW101
CW113
CW961
CW121
CW082
CW142
IC101
IC103
IC104
IC105
IC106
IC107
IC108
IC109
IC110
IC501
IC502
IC503
IC507
IC701
IC705
JK501
JK502
JK701
S501
T501
CX931
LF501
LF503
LF504
VR501
VR502
TR401
TR402
TR403
TR404
TR405
TR406
TR409
TR410
TR421
TR422
TR423
TR424
TR425
TR429
TR430
TR441
TR442
TR443
TR445
TR171
TR173
TR174
TR175
TR501
TR502
TR503
TR504
TR505
TR509
TR510
TR511

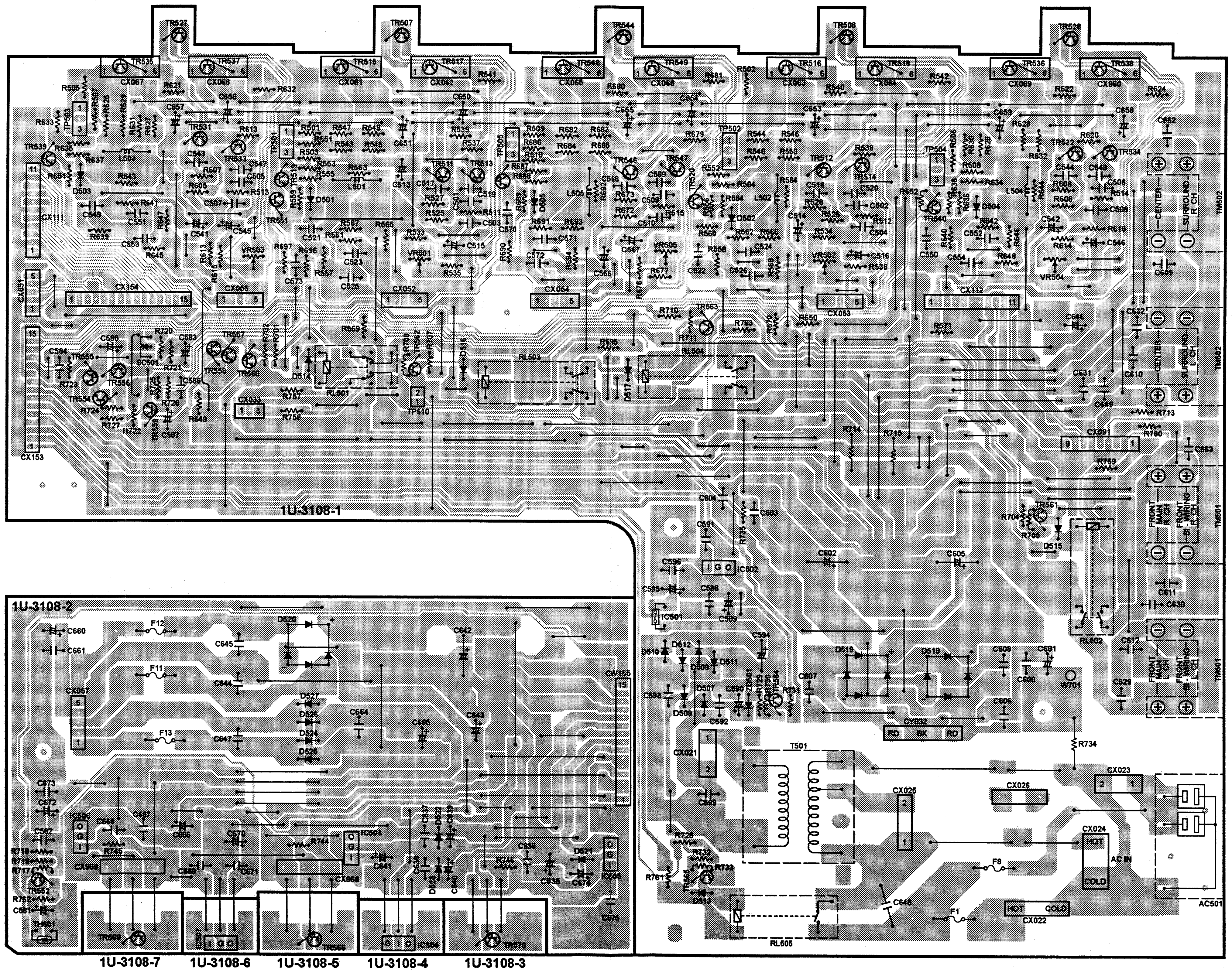
1U-3106 DISPLAY VIDEO UNIT


1
2
3
4
5
6
7
8
A
B
C
D
E
1U-3106-3
1U-3106-2
1U-3106-1
IC306
IC307
IC303
IC302
IC301
IC305
IC308
IC304
IC401
IC402
IC101
IC102
IC201
JK301
JK302
JK303
JK304
JK401
JK402
JK403
CW103
CW132
CW122
CW962
CW061
CX181
CX005
FL101
VR201
VR202
S126
ST1

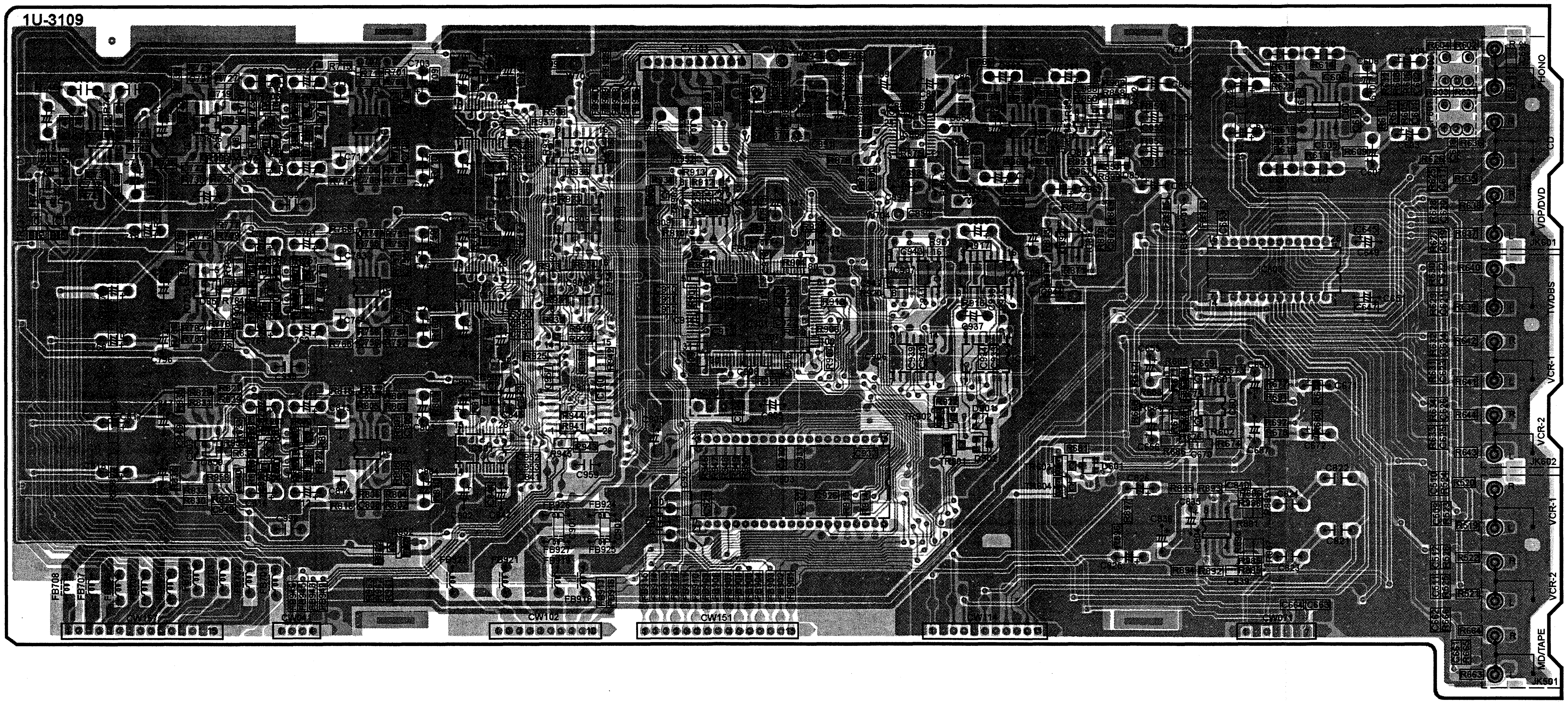
1U-3107 CONTROL UNIT


1
2
3
4
5
6
7
8
A
B
C
D
E
1U-3107-3
1U-3107-4
1U-3107-5
1U-3107-2
1U-3107-1
JK501
JK902
CX155
CX142
IC120
RL120
T101
T102
CW153
CW051
CW111
CW156
CW963
CX101
CX113
CX961
CX121
CX092
CX353
CX157
CX041
CX102
CX181
CX114
CX071
CW181
CX156
IC113
IC112
IC111
CX962
CX122
CX132

1U-3108 POWER AMP. UNIT


1
2
3
4
5
6
7
8
A
B
C
D
E
1U-3108-1
1U-3108-2
1U-3108-7
1U-3108-6
1U-3108-5
1U-3108-4
1U-3108-3
TR527
TR507
TR544
TR508
TR528
CX067
CX068
CX061
CX062
CX065
CX066
CX063
CX064
CX069
CX060
CX111
CX164
CX051
CX055
CX052
CX054
CX053
CX112
CX153
CX033
CX091
CW155
CX057
CX021
CX025
CX026
CX023
CX024
CX022
CY032
RL501
RL503
RL504
RL502
RL505
T501
F1
F8
F11
F12
F13
IC501
IC502
IC503
IC504
IC505
IC506
IC507
TM501
TM502
TR569
TR568
TR570
AC501
AC IN
HOT
COLD
RD
BK
RD
W701
CENTER
SURROUND R CH
SURROUND L CH
FRONT MAIN R CH
FRONT WIRING R CH
FRONT MAIN L CH
FRONT WIRING L CH
TH501

1U-3109 AUDIO IN DSP UNIT


1
2
3
4
5
6
7
8
A
B
C
D
E
1U-3109
PHONO
CD
VDP/DVD
JK601
TV/DBS
VCR-1
VCR-2
JK602
VCR-1
VCR-2
MD/TAPE
JK681
FB708
FB707
CW102
CW151

NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.: RN 14K 2E 182 G FR

RN	14K	2E	182	G	FR
Type	Shape and performance	Power	Resistance	Allowable error	Others

Type	Power	Allowable error	Others
RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : Metal film RK : Metal mixture	2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming

*** Resistance**

1 8 2 ⇒ 1800 ohm = 1.8 kohm
2 ← Indicates number of zeros after effective number.
1 8 ← 2-digit effective number.
- Units: ohm

1 R 2 ⇒ 1.2 ohm
2 ← 1-digit effective number.
1 R ← 2-digit effective number, decimal point indicated by R.
- Units: ohm

● Capacitors

Ex.: CE 04W 1H 2R2 M BP

CE	04W	1H	2R2	M	BP
Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others

Type	Dielectric strength	Allowable error	Others
CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CQ : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% −0% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For change and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming

*** Capacity (electrolyte only)**

2 2 2 ⇒ 2200µF
2 ← Indicates number of zeros after effective number.
2 2 ← 2-digit effective number.
- Units: µF.

2 R 2 ⇒ 2.2µF
2 ← 1-digit effective number.
2 R ← 2-digit effective number, decimal point indicated by R.
- Units: µF.

*** Capacity (except electrolyte)**

2 2 2 ⇒ 2200pF=0.0022µF
2 ←(More than 2)— Indicates number of zeros after effective number.
2 2 ← 2-digit effective number.
- Units: µF.

2 2 1 ⇒ 220pF
1 ←(0 or 1)— Indicates number of zeros after effective number.
2 2 ← 2-digit effective number.
- Units: pF.

- When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

PARTS LIST OF P.W.B. UNIT

1U-3105 TUNER AMP UNIT

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	262 2214 007	IC LC7536	
IC103~106	263 0896 909	IC NJM2068MD	
IC107,108	262 2214 007	IC LC7536	
IC109,110	263 0896 909	IC NJM2068MD	
IC501	216 0102 008	Front end	
IC502	263 0891 001	IC LA1265(S)	
IC503	263 0439 007	IC LA3401	
IC507	262 2450 900	IC LC72131M-TLM	
IC705	262 1853 100	IC NJU7313AL	
TR171,172	275 0094 908	FET 2SK209-GR	
TR173	269 0083 901	Transistor DTA114EK	
TR174	269 0054 901	Transistor DTC144EK	
TR175	275 0094 908	FET 2SK209-GR	
TR401,402	273 0253 918	Transistor 2SC2878(A/B)	
TR403~406	271 0094 919	Transistor 2SA970(BL)	
TR409,410	273 0281 906	Transistor 2SC2705(O)/(Y)	
TR421,422	273 0253 918	Transistor 2SC2878(A/B)	
TR423~426	271 0094 919	Transistor 2SA970(BL)	
TR429,430	273 0281 906	Transistor 2SC2705(O)/(Y)	
TR441	273 0253 918	Transistor 2SC2878(A/B)	
TR442,443	271 0094 919	Transistor 2SA970(BL)	
TR445	273 0281 906	Transistor 2SC2705(O)/(Y)	
TR502	273 0411 909	Transistor 2SC2996-Y	
TR503,504	269 0083 901	Transistor DTA114EK	
TR505	269 0114 906	Transistor RN2402	
TR508	269 0054 901	Transistor DTC144EK	
TR509,510	269 0066 902	Transistor DTC323TK	
TR511	269 0086 908	Transistor DTA114TK	
D171~173	276 0432 903	Diode 1SS270A	
D501	276 0432 903	Diode 1SS270A	
D503~505	276 0432 903	Diode 1SS270A	
ZD502	276 0644 937	Zener diode MTZJ9.1A	9.1V
RESISTORS GROUP			
R101	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R102	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332J
R111,112	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R113,114	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B--224J
R115,116	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R117,118	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R119,120	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R121,122	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R123~126	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R127,128	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R129,130	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R131,132	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B--224J
R133,134	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R135,136	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R137,138	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R139,140	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B--751J
R141	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R142	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R143,144	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R145,146	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R147,148	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R149,150	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B--224J
R151,152	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R153,154	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R155,156	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R157,158	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R159,160	247 0007 916	Carbon chip 750 ohm 1/10W	RM73B--751J
R161,162	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R163	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R164	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R165,166	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R167,168	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R171,172	247 0006 920	Carbon chip 330 ohm 1/10W	RM73B--331J
R173	247 0009 943	Carbon chip 6.8 kohm 1/10W	RM73B--682J
R174~177	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R181~186	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R429,430	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBS
R501	247 0002 966	Carbon chip 10 ohm 1/10W	RM73B--100J
R503	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R504,505	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R507~512	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R514	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R515	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R516	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R518	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B--221J
R519	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R520	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R521	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R522	247 0006 920	Carbon chip 330 ohm 1/10W	RM73B--331J
R523	247 0007 961	Carbon chip 1.2 kohm 1/10W	RM73B--122J
R524	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R525	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R526	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562J
R527	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R528	247 0008 944	Carbon chip 2.7 kohm 1/10W	RM73B--272J
R529	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R531	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R532	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R533	247 0010 929	Carbon chip 15 kohm 1/10W	RM73B--153J
R534	247 0005 921	Carbon chip 120 ohm 1/10W	RM73B--121J
R535	247 0010 945	Carbon chip 18 kohm 1/10W	RM73B--183J

Ref. No.	Part No.	Part Name	Remarks
R536	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R537	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R538	247 0009 943	Carbon chip 6.8 kohm 1/10W	RM73B--682J
R539	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562J
R540,541	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R542,543	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332J
R544,545	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R546	247 0011 973	Carbon chip 62 kohm 1/10W	RM73B--623J
R547	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R548	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R549	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R550	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562J
R551	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R553,554	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332J
R555	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562J
R571,572	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R575,576	247 0012 943	Carbon chip 120 kohm 1/10W	RM73B--124J
R577	247 0010 961	Carbon chip 22 kohm 1/10W	RM73B--223J
R578	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R579	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R580	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R581	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R582	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R592,593	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R595	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R609,610	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBS
R644	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R647~649	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R674	241 2376 964	Carbon film 47 ohm 1/4W(NB)	RD14B2E470JNBS
R701,702	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R705,706	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R717,718	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R721,722	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R733,734	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R737,738	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R739	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R793~798	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
VR501	211 6132 925	Semi fixed resistor 10 kohm	V06PB103
VR502	211 6132 983	Semi fixed resistor 100 kohm	V06PB104
CAPACITORS GROUP			
C103,104	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C105,106	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C107,108	257 0012 982	Ceramic chip 0.022µF/50V	CK73F1H223Z
C109~112	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C114	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C117,118	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C119,120	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C121,122	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M

Ref. No.	Part No.	Part Name	Remarks
C123,124	257 0012 982	Ceramic chip 0.022µF/50V	CK73F1H223Z
C125,126	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C127,128	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C131,132	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C134	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C137,138	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C141,142	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C143,144	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C145,146	257 0012 982	Ceramic chip 0.022µF/50V	CK73F1H223Z
C147,148	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C149,150	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C153,154	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C156	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C159,160	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C163,164	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101J
C171,172	256 1058 955	Metalized 0.068µF/50V	CF93A1H683J (JL)
C173	255 1265 923	Mylar film 8200 pF/50V	CQ93M1H822J(B)
C401,402	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C403,404	253 4538 949	Ceramic 100 pF/50V	CC45SL1H101J(DD-3)
C405,406	253 4537 924	Ceramic 33 pF/50V	CC45SL1H330J(DD-3)
C407,408	253 4482 901	Ceramic 33 pF/500V	CC45SL2H330J
C409,410	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C411,412	255 4202 941	Polypropylene film 1000 pF/50V	CQ93P1H102J
C413	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C415,416	254 4254 912	Electrolytic 22µF/16V	CE04W1C220M
C431,432	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C433,434	253 4538 949	Ceramic 100 pF/50V	CC45SL1H101J(DD-3)
C435,436	253 4537 924	Ceramic 33 pF/50V	CC45SL1H330J(DD-3)
C437,438	253 4482 901	Ceramic 33 pF/500V	CC45SL2H330J
C439,440	255 4202 941	Polypropylene film 1000 pF/50V	CQ93P1H102J
C441,442	254 4254 912	Electrolytic 22µF/16V	CE04W1C220M
C455,456	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C460	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C461	253 4538 949	Ceramic 100 pF/50V	CC45SL1H101J(DD-3)
C462	253 4537 924	Ceramic 33 pF/50V	CC45SL1H330J(DD-3)
C463	253 4482 901	Ceramic 33 pF/500V	CC45SL2H330J
C464	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C465	255 4202 941	Polypropylene film 1000 pF/50V	CQ93P1H102J
C466	254 4254 912	Electrolytic 22µF/16V	CE04W1C220M
C501,502	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C503~505	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C507,508	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C509	257 0002 947	Ceramic chip 12 pF/50V	CC73SL1H120J
C510	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C511	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C512	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C513	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C514	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C515	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C516,517	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C520	257 0004 961	Ceramic chip 100pF/50V	CC73SL1H101J

Ref. No.	Part No.	Part Name	Remarks
C521~523	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C524	254 4260 935	Electrolytic 0.47µF/50V	CE04W1HR47M
C525	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C526	257 0010 942	Ceramic chip 0.022µF/50V	CK73B1H223K
C527	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C528	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C529	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C530	254 4260 919	Electrolytic 0.22µF/50V	CE04W1HR22M
C531	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C532	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C533	256 1058 939	Metalized 0.047µF/50V	CF93A1H473J (JL)
C534	256 1058 942	Metalized 0.056µF/50V	CF93A1H563J (JL)
C535	254 3053 910	Electrolytic 22µF/16V	CE04D1C220MBP
C536	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C538	254 4254 912	Electrolytic 22µF/16V	CE04W1C220M
C539,540	257 0006 972	Ceramic chip 750 pF/50V	CC73SL1H751J
C541	254 4260 951	Electrolytic 2.2µF/50V	CE04W1H2R2M
C544	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C545,546	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C557,558	257 0002 963	Ceramic chip 15 pF/50V	CC73SL1H150J
C559	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C561	257 0012 966	Ceramic chip 0.01 µF/50V	CK73F1H103Z
C562	257 0014 935	Ceramic chip 0.1 µF/25V	CK73F1E104Z
C570	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C571	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C574	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C587	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C588	256 1058 900	Metalized 0.027µF/50V	CF93A1H273J (JL)
C731	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C751,752	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C753,754	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M

OTHER PARTS			Q'ty
CF501	261 0135 907	Ceramic filter MA8	1
CF502	261 0136 906	Ceramic filter MS2G	1
CF503	261 0079 005	Ceramic resonator CSB456F11	1
CF504	261 0031 001	Ceramic filter BFU450C4	1
CF505	261 0116 007	Ceramic filter SFU450B3	1
CW052~055	205 0885 008	5P connector socket (TUC-P)	4
CW082	205 0885 095	8P connector socket (TUC-P)	1
CW101	205 0885 053	10P connector socket (TUC-P)	1
CW112,113	205 0885 066	11P connector socket (TUC-P)	2
CW121	205 0885 079	12P connector socket (TUC-P)	1
CW142	205 0885 011	14P connector socket (TUC-P)	1
CW154	205 0885 040	15P connector socket (TUC-P)	1
CW961	205 0942 019	6P connector socket (TUC-P)	1
CX931	205 0190 036	3P NH connector base	1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
FB501	235 0049 900	Beads inductor		1
JK501	205 0847 004	3P antenna terminal (PAL/F)		1
JK502	204 8562 003	2P pin jack (S-GND)		1
JK701	204 8513 010	6P pin jack		
L504	235 0060 905	Inductor 2.2 µH		1
L510	235 0060 950	Inductor 10 µH		1
T501	231 2096 001	MW ant.-osc. coil		1
T502	231 2085 009	FM DET trans.		1
T503	231 1138 009	AM IFT		1
XL503	399 0075 003	Crystal 7.2 MHz		1
	205 1034 010	M3 Screw terminal		1

1U-3106 DISPLAY VIDEO UNIT

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	499 0290 007	Remocon sensor GP1U271X	
IC102	262 2451 006	IC LC75711NE	
IC201	263 0609 002	IC NJM2068DDC	
IC301	263 0857 003	IC BA7626	
IC302	263 0856 004	IC BA7625	
IC303	262 2492 007	IC TC74HC151AP	
IC304	262 2067 005	IC MC74HC4053N	
IC305	263 0682 003	IC NJM2229S	
IC306	269 0172 003	Optical connector GP1F37R	
IC307	262 1265 002	IC TC74HCU04AP	
IC308	262 2311 007	IC M35015-204SP	
IC401	263 0856 004	IC BA7625	
IC402	262 0522 005	IC TC4053BP	
TR101~104	269 0020 906	Transistor DTC114ES(10K-10K)	
TR106	269 0046 906	Transistor DTA114ES(10K-10K)	
TR107	269 0054 901	Transistor DTC144EK	
TR108	269 0055 900	Transistor DTA144EK	
TR109	269 0054 901	Transistor DTC144EK	
TR110	269 0055 900	Transistor DTA144EK	
TR111	269 0054 901	Transistor DTC144EK	
TR112	269 0055 900	Transistor DTA144EK	
TR301~307	271 0290 904	Transistor 2PA1015GR	
TR309	271 0290 904	Transistor 2PA1015GR	
TR310	269 0020 906	Transistor DTC114ES(10K-10K)	
TR311	273 0446 903	Transistor 2PC1815BL	
TR312,313	271 0290 904	Transistor 2PA1015GR	
TR402~405	271 0290 904	Transistor 2PA1015GR	
D101,102	276 0438 910	Diode MA151A	
D103	276 0432 903	Diode 1SS270A	
D301~308	276 0432 903	Diode 1SS270A	
ZD101,102	276 0637 902	Zener diode MTZJ6.2A	6.2V
ZD103	276 0644 937	Zener diode MTZJ9.1A	9.1V
LD101,102	393 9434 906	LED SEL1210S	Red
LD103	393 9452 904	LED SEL1410E	Green
LD104	393 9434 906	LED SEL1210S	Red
FL101	393 8033 007	FLD (CM1690C)	

Ref. No.	Part No.	Part Name	Remarks
RESISTORS GROUP			
R108~123	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R124,125	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R126~141	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R142	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R179~197	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R198	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R377	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
VR201	211 0883 018	Variable resistor 30 kohm	V14P25FC303K
VR202	211 0883 005	Variable resistor 10 kohm	V14P25FC103K
CAPACITORS GROUP			
C101	253 9039 906	Ceramic 0.1µF/25V	CK45=1E104Z(DD-3)
C102	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C104	254 4196 944	Electrolytic 1µF/50V	CE04W1H010M (SRA)
C106	254 4261 921	Electrolytic 100µF/50V	CE04W1H101M
C107	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C108	254 4250 945	Electrolytic 330µF/6.3V	CE04W0J331M
C109	257 0003 933	Ceramic chip 30 pF/50V	CC73SL1H300J
C110,111	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C117	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C121	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C201,202	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C203,204	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C205,206	253 4537 924	Ceramic 33 pF/50V	CC45SL1H330J(DD-3)
C207,208	255 1264 940	Mylar film 2200 pF/50V	CQ93M1H222J(B)
C209,210	256 1059 909	Metalized 0.18µF/50V	CF93A1H184J (JL)
C211,212	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C215,216	255 1265 949	Mylar film 0.012µF/50V	CQ93M1H123J(B)
C217,218	256 1058 942	Metalized 0.056µF/50V	CF93A1H563J (JL)
C219,220	254 4260 922	Electrolytic 0.33µF/50V	CE04W1HR33M
C231,232	253 4538 949	Ceramic 100 pF/50V	CC45SL1H101J(DD-3)
C233,234	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C301	253 9039 906	Ceramic 0.1µF/25V	CK45=1E104Z(DD-3)
C302	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C304	254 4254 925	Electrolytic 33µF/16V	CE04W1C330M
C305,306	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C307	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C308	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C309	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C310	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C311	254 4250 932	Electrolytic 220µF/6.3V	CE04W0J221M
C312	254 4250 958	Electrolytic 470µF/6.3V	CE04W0J471M
C313	254 4250 932	Electrolytic 220µF/6.3V	CE04W0J221M
C314	254 4250 958	Electrolytic 470µF/6.3V	CE04W0J471M
C315	254 4250 932	Electrolytic 220µF/6.3V	CE04W0J221M
C316	254 4250 958	Electrolytic 470µF/6.3V	CE04W0J471M
C317,318	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M

Ref. No.	Part No.	Part Name	Remarks
C319,320	253 1181 917	Ceramic 0.022µF/50V	CK45F1H223Z(DD-3)
C321	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C323	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M
C324	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C327~329	253 4537 924	Ceramic 33 pF/50V	CC45SL1H330J(DD-3)
C330	253 9030 963	Ceramic 0.01µF/25V	CK45=1E103K
C331	257 0002 921	Ceramic chip 10 pF/50V	CC73SL1H100D
C332	257 0002 947	Ceramic chip 12 pF/50V	CC73SL1H120J
C333	255 1265 978	Mylar film 0.022µF/50V	CQ93M1H223J(B)
C334	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C335	253 4538 949	Ceramic 100 pF/50V	CC45SL1H101J(DD-3)
C336	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C337	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C338	255 1264 908	Mylar film 1000 pF/50V	CQ93M1H102J(B)
C339	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M
C340	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C341	255 1264 911	Mylar film 1200 pF/50V	CQ93M1H122J(B)
C342	253 1179 929	Ceramic 150 pF/50V	CK45B1H151K(DD-3)
C343	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C344	256 1058 955	Metalized 0.068µF/50V	CF93A1H683J (JL)
C345	253 1179 987	Ceramic 470 pF/50V	CK45B1H471K(DD-3)
C346	253 9030 934	Ceramic 3300 pF/25V	CK45=1E332K
C347,348	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C349,350	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M
C352,353	256 1058 939	Metalized 0.047µF/50V	CF93A1H473J (JL)
C354	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C355	256 1058 939	Metalized 0.047µF/50V	CF93A1H473J (JL)
C358	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C360	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C390	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C391	254 4254 925	Electrolytic 33µF/16V	CE04W1C330M
C392	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C393,394	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C395,396	253 4536 983	Ceramic 22 pF/50V	CC45SL1H220J(DD-3)
C397~399	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C401~404	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C407~409	254 4250 958	Electrolytic 470µF/6.3V	CE04W0J471M
C411	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C413	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C415	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M
C416	253 1181 917	Ceramic 0.022µF/50V	CK45F1H223Z(DD-3)
C417	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C418	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C419	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C420	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M

Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER PARTS				
CW081	204 2446 015	8P PH-SAN cord		1
CW103	204 2593 010	10P PH-SAN connector cord		1
CW122	205 0885 079	12P connector socket (TUC-P)		1
CW132	205 0942 006	13P connector socket (TUC-P)		1
CW962	205 0942 019	6P connector socket (TUC-P)		1
CX025	205 0644 003	2P wrapping terminal		1
CX181	205 1055 031	18P connector base (TKC-V)		1
FB101	235 0049 900	Beads inductor		1
FB305,306	235 0049 900	Beads inductor		2
JK301	204 8552 000	2P pin jack (FG-DIG)		1
JK302,303	204 8415 011	3P S-terminal		2
JK304	205 0902 004	1P S-terminal (SW)		1
JK401,402	204 8516 017	3P pin jack		2
JK403	204 8512 008	1P pin jack		1
L301	235 0060 963	Inductor 15µH		1
L302	235 0060 905	Inductor 2.2µH		1
L303	235 0060 918	Inductor 4.7µH		1
L305	235 0060 905	Inductor 2.2µH		1
S101~122	212 5609 902	Tact switch		22
S128	212 0373 000	Rotary encorder EC16B		1
XL301	399 0153 006	Crystal 14.32MHZ-12PF		1
XL302	399 0105 009	Ceramic resonator CSB503F2		1

1U-3107 CONTROL UNIT

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC113	262 2485 001	IC TMP87CS71F-****	MAIN-UCOM
IC120	263 0609 002	IC NJM2068DDC	
IC281	263 0896 909	IC NJM2068MD	
IC282	263 0615 902	IC BA15218F	
TR102	269 0083 901	Transistor DTA114EK	
TR103	269 0054 901	Transistor DTC144EK	
TR104	274 0163 904	Transistor 2SD601A	
TR105	269 0054 901	Transistor DTC144EK	
TR106	271 0131 924	Transistor 2SA988(E/F)	
TR112,113	269 0046 906	Transistor DTA114ES(10K-10K)	
TR114	269 0054 901	Transistor DTC144EK	
TR115	269 0055 900	Transistor DTA144EK	
TR116,117	275 0094 908	FET 2SK209-GR	
TR118	269 0055 900	Transistor DTA144EK	
TR120	269 0020 906	Transistor DTC114ES(10K-10K)	
TR121	273 0429 904	Transistor 2SC3311A	
TR281	269 0054 901	Transistor DTC144EK	
TR282	269 0055 900	Transistor DTA144EK	
TR283	275 0094 908	FET 2SK209-GR	
TR567,568	273 0253 918	Transistor 2SC2878(A/B)	
TR603,604	271 0131 924	Transistor 2SA988(E/F)	
TR605	273 0445 001	Transistor 2SC4495	
TR606	271 0131 924	Transistor 2SA988(E/F)	
D102	276 0553 905	Diode 1SR35-200A	
D103	276 0432 903	Diode 1SS270A	
D105	276 0432 903	Diode 1SS270A	
D106,107	276 0553 905	Diode 1SR35-200A	
D120	276 0432 903	Diode 1SS270A	
D125,126	276 0553 905	Diode 1SR35-200A	
D128~131	276 0432 903	Diode 1SS270A	
D280	276 0432 903	Diode 1SS270A	
D601~611	276 0432 903	Diode 1SS270A	
ZD100	276 0645 978	Zener diode MTZJ36A	36V
ZD102	276 0643 996	Zener diode MTZJ5.6A	5.6V
ZD103	276 0634 905	Zener diode MTZJ3.3A	3.3V
RESISTORS GROUP			
R152,153	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R155,156	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R158	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R160~167	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R171~173	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R174	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R186~189	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R190	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R191~193	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R194	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R198	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R201	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R202	247 0013 900	Carbon chip 220 kohm 1/10W	RM73B--224J
R203	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R204	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R205	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R206	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R207~209	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R210	241 2387 940	Carbon film 4.7 ohm 1/4W(NB)	RD14B2E4R7JNBS
R212	241 2387 940	Carbon film 4.7 ohm 1/4W(NB)	RD14B2E4R7JNBS
R224,225	244 2055 996	Metal oxide 1.2 kohm 1W	RS14B3A122JNBS(S)
R226	244 2055 996	Metal oxide 1.2 kohm 1W	RS14B3A122JNBS(S)
R231	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R281~286	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R287,288	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R289,290	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R291	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R292	247 0009 927	Carbon chip 5.6 kohm 1/10W	RM73B--562J
R293	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R294	247 0009 930	Carbon chip 6.2 kohm 1/10W	RM73B--622J
R295	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R296	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R297	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R299	247 0009 998	Carbon chip 11 kohm 1/10W	RM73B--113J
R751,752	244 2052 960	Metal oxide 220 ohm 1W	RS14B3A221JNBS(S)
CAPACITORS GROUP			
C101	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C121,122	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C123,124	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C127,128	253 1179 903	Ceramic 100 pF/50V	CK45B1H101K(DD-3)
C129,130	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C141	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C147	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C148	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C149	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C158,159	257 0004 903	Ceramic chip 56 pF/50V	CC73SL1H560J
C172	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C173	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C174	254 4250 932	Electrolytic 220µF/6.3V	CE04W0J221M
C175	256 1058 984	Metalized 0.12µF/50V	CF93A1H124J (JL)
C176	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C177	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C178	259 0007 702	Back up cap. 8200µF/5.5V	SB CAP==822=C

Ref. No.	Part No.	Part Name	Remarks
C179	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C181	254 4252 969	Electrolytic 470µF/10V	CE04W1A471M
C186	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C191,192	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C218,219	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C220	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C232	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C237,238	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C241	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C247	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C251	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C253,254	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C260,261	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C270~276	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C283,284	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C285	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C286	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C287	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C288	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C291	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C293~296	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C615	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C617	254 4254 912	Electrolytic 22µF/16V	CE04W1C220M
C619	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C620	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C621~624	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C633,634	253 1180 921	Ceramic 1000 pF/50V	CK45B1H102K(DD-3)
C637	254 4260 980	Electrolytic 10µF/50V	CE04W1H100M
C638,639	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)

OTHER PARTS

Ref. No.	Part No.	Part Name	Remarks	Q'ty
CW051	205 0885 008	5P connector socket (TUC-P)		1
CW091	205 0885 037	9P connector socket (TUC-P)		1
CW111	205 0885 066	11P connector socket (TUC-P)		1
CW153	205 0885 040	15P connector socket (TUC-P)		1
CW156	205 0885 040	15P connector socket (TUC-P)		1
CW181	205 1056 030	18P connector socket TKC-V		1
CW963	205 0942 019	6P connector socket (TUC-P)		1
CX041	205 0884 083	4P connector base (TUC-P)		1
CX071	205 0943 021	7P connector base (TUC-P)		1
CX081	205 0343 087	8P connector base (KR-PH)		1
CX082	205 0884 096	8P connector base (TUC-P)		1
CX101,102	205 0884 054	10P connector base (TUC-P)		2
CX113,114	205 0884 067	11P connector base (TUC-P)		2
CX121,122	205 0884 070	12P connector base (TUC-P)		2
CX132	205 0943 005	13P connector base (TUC-P)		1
CX142	205 0884 012	14P connector base (TUC-P)		1
CX151	205 0884 041	15P connector base (TUC-P)		1
CX155~157	205 0884 041	15P connector base (TUC-P)		3
CX961~963	205 0943 018	6P connector base (TUC-P)		3
CY021	205 0581 001	2P VH connector base		1
CY033	205 0343 032	3P connector base (KR-PH)		1
FB101,102	235 0049 900	Beads inductor		3
FB120,121	235 0049 900	Beads inductor		2
FB122,123	235 0106 908	Chip emifil (21A05)		2
FB126	235 0106 908	Chip emifil (21A05)		1
FB127	235 0049 900	Beads inductor		1
FB128	235 0106 908	Chip emifil (21A05)		1
FB502	235 0049 900	Beads inductor		1
JK501	204 8545 004	4P pin jack (GND)		1
JK502	204 8264 013	Head phone jack (NI)		1
RL120	214 0127 003	Relay (RY-12W)		1
⚠S501	212 1031 008	Power switch (TV-5)		1
T101,102	205 1034 010	M3 Screw terminal		2
X103	399 0191 903	Ceramic 4.00 MHz	CST4.00MGW-TF01	1

1U-3108 POWER AMP. UNIT

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
⚠IC501	268 0073 905	IC ICP-N15	
IC502	263 0793 002	IC NJM7806FA(S)	
IC503	263 0801 004	IC NJM7812FA(S)	
IC504	263 0641 002	IC NJM7912FA	
IC505	263 0793 002	IC NJM7806FA(S)	
IC506,507	263 0809 006	IC NJM7805FA(S)	
TR507,508	273 0303 910	Transistor 2SC1740S(S)	
TR511,512	274 0151 929	Transistor 2SD2004(Q)	
TR513,514	272 0107 922	Transistor 2SB1328(Q)	
TR519,520	273 0235 923	Transistor 2SC1841(E/F)	
TR527,528	273 0303 910	Transistor 2SC1740S(S)	
TR531,532	274 0151 929	Transistor 2SD2004(Q)	
TR533,534	272 0107 922	Transistor 2SB1328(Q)	
TR539,540	273 0235 923	Transistor 2SC1841(E/F)	
TR544	273 0303 910	Transistor 2SC1740S(S)	
TR546	274 0151 929	Transistor 2SD2004(Q)	
TR547	272 0107 922	Transistor 2SB1328(Q)	
TR550	273 0235 923	Transistor 2SC1841(E/F)	
TR551	271 0131 924	Transistor 2SA988(E/F)	
TR552	273 0429 904	Transistor 2SC3311A	
TR554	273 0429 904	Transistor 2SC3311A	
TR555	271 0192 905	Transistor 2SA933S(S)	
TR556,557	273 0429 904	Transistor 2SC3311A	
TR558	271 0192 905	Transistor 2SA933S(S)	
TR559~565	273 0429 904	Transistor 2SC3311A	
TR569,570	271 0254 018	Transistor 2SA1725(O/P/Y)	
D501~505	276 0432 903	Diode 1SS270A	
D507~512	276 0553 905	Diode 1SR35-200A	
D513~517	276 0432 903	Diode 1SS270A	
D518~520	276 0305 001	Diode S4VB20	
D521~523	276 0432 903	Diode 1SS270A	
D524~527	276 0553 905	Diode 1SR35-200A	
ZD501	276 0644 911	Zener diode MTZJ7.5A	7.5V
SC501	279 0016 904	Thyristor SF0R1A42	
TH501	279 0034 067	Posistor PTH9M04BB222TS2F333	
RESISTORS GROUP			
R525~528	244 2052 957	Metal oxide 5.6 kohm 1W	RS14B3A562JNBS(S)
R537,538	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBS
R539~542	241 2387 908	Carbon film 1 ohm 1/4W(NB)	RD14B2E010JNBS
R543~550	244 2043 982	Metal oxide 0.22 ohm 1W	RS14B3AR22JNBS(S)
R557,558	244 2043 937	Metal oxide 10 ohm 1W	S14B3A100JNBS(S)
R571	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R605~608	244 2052 957	Metal oxide 5.6 kohm 1W	RS14B3A562JNBS(S)
R619,620	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBS
R621~624	241 2387 908	Carbon film 1 ohm 1/4W(NB)	RD14B2E010JNBS
R625~632	244 2043 982	Metal oxide 0.22 ohm 1W	RS14B3AR22JNBS(S)
R639,640	244 2043 937	Metal oxide 10 ohm 1W	RS14B3A100JNBS(S)
R672,673	244 2052 957	Metal oxide 5.6 kohm 1W	S14B3A562JNBS(S)
R679	241 2378 962	Carbon film 330 ohm 1/4W(NB)	RD14B2E331JNBS
R680,681	241 2387 908	Carbon film 1 ohm 1/4W(NB)	RD14B2E010JNBS
R682~685	244 2043 982	Metal oxide 0.22 ohm 1W	S14B3AR22JNBS(S)
R690	244 2043 937	Metal oxide 10 ohm 1W	S14B3A100JNBS(S)
R714,715	243 2039 032	Winding 0.1 ohm 5W	RW99=3H0R1K
R734	242 2009 001	Composition 2.2 Mohm 1/2W	RC05GF2H225K(UL)
R744~746	241 2376 919	Carbon film 30 ohm 1/4W(NB)	RD14B2E300JNBS
R757,758	244 2052 960	Metal oxide 220 ohm 1W	S14B3A221JNBS(S)
VR501~505	211 6132 909	Semi fixed resistor 4.7 kohm	V06PB472
CAPACITORS GROUP			
C513,514	254 4261 918	Electrolytic 47µF/50V	CE04W1H470M
C515,516	254 4263 987	Electrolytic 10µF/100V	CE04W2A100M
C517~520	253 4494 902	Ceramic 100 pF/500V	CC45SL2H101J
C521,522	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C541,542	254 4261 918	Electrolytic 47µF/50V	CE04W1H470M
C543,544	253 4494 902	Ceramic 100 pF/500V	CC45SL2H101J
C545,546	254 4263 987	Electrolytic 10µF/100V	CE04W2A100M
C547,548	253 4494 902	Ceramic 100 pF/500V	CC45SL2H101J
C549,550	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C566	254 4261 918	Electrolytic 47µF/50V	CE04W1H470M
C567	254 4263 987	Electrolytic 10µF/100V	CE04W2A100M
C568,569	253 4494 902	Ceramic 100 pF/500V	CC45SL2H101J
C570	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C573	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C581	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C582	253 9039 906	Ceramic 0.1µF/25V	CK45=1E104Z(DD-3)
C583	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C584	253 9039 906	Ceramic 0.1µF/25V	CK45=1E104Z(DD-3)
C585	254 4250 945	Electrolytic 330µF/6.3V	CE04W0J331M
C586	253 9039 906	Ceramic 0.1µF/25V	CK45=1E104Z(DD-3)
C587	254 4250 945	Electrolytic 330µF/6.3V	CE04W0J331M
C588	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C589	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C590	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C591~593	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C594	254 4256 790	Electrolytic 2200µF/25V	CE04W1E222MC
C595	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C599	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C601	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M

Ref. No.	Part No.	Part Name	Remarks
C602	254 6200 003	Electrolytic 10000µF/56V	CE68W==103MC(DL)
C603,604	256 1042 903	Metalized 0.1µF/250V	CF93A2E104K
C605	254 6200 003	Electrolytic 10000µF/56V	CE68W==103MC(DL)
C606~608	256 1042 903	Metalized 0.1µF/250V	CF93A2E104K
C609~612	255 1265 936	Mylar film 0.01µF/50V	CQ93M1H103J(B)
C635	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C636~638	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C639,640	254 4256 936	Electrolytic 47µF/25V	CE04W1E470M
C641	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C642	254 4403 747	Electrolytic 10000µF/25V	CE04W1E103MC (SMG)
C643	254 4256 787	Electrolytic 1000µF/25V	CE04W1E102MC
C644,645	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
C646	254 4262 784	Electrolytic 470µF/63V	CE04W1J471MC
C647	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)
⚠C648	253 8014 702	Ceramic 0.01µF/400V(AC)	CK45F2GAC103MC
C660	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C664	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C665	254 4406 702	Electrolytic 3300µF/16V	CE04W1C332MC(SMG)
C666	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C667~669	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C670	254 4256 936	Electrolytic 47µF/25V	CE04W1E470M
C671	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)
C672	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C675	253 1181 904	Ceramic 0.01µF/50V	CK45F1H103Z(DD-3)

OTHER PARTS				Q'ty
CW155	205 0885 040	15P connector socket (TUC-P)		1
CX021	205 0581 001	2P VH connector base		1
CX022	205 0606 025	2P wrapping terminal		1
CX024	205 0606 025	2P wrapping terminal		1
CX033	205 0343 032	3P connector base (KR-PH)		1
CX051~055	205 0884 009	5P connector base (TUC-P)		5
CX057	205 0233 058	5P EH connector base		1
CX061~069	205 1064 064	6P pin header (TXX)V		9
CX091	205 0884 038	9P connector base (TUC-P)		1
CX111,112	205 0884 067	11P connector base (TUC-P)		2
CX153,154	205 0884 041	15P connector base (TUC-P)		2
CX960	205 1064 064	6P pin header (TXX)V		1
CX968	205 1037 062	6P pin header (TXX)		1
CY032	205 0087 039	3P wrapping terminal		1
⚠F1	206 1046 001	Fuse 6.3A UL 20mm		1
⚠F8	206 1046 014	Fuse 8A		1
⚠F11,12	206 1039 076	Fuse 2.5A		2
⚠F13	206 1039 076	Fuse 2.5A		1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
FH501~505	202 0040 909	Fuse clip		10
L501~505	235 0068 004	Inductor 1µH		5
RL501	214 0127 003	Relay (RY-12W)		1
RL502~504	214 0195 006	Relay FTR-F1		3
⚠RL505	214 0188 000	Relay VS-12MBNR-SM2(TV-8)		1
⚠T501	233 6073 000	Power trans. (Mini)-EU		1
TM501,502	205 0472 013	8P SP terminal (EAEK)		2
TP501~505	205 0190 036	3P NH connector base		5
	415 0309 026	P.V.C. tube (L=20)	for TH501	2
⚠AC501	203 3976 002	AC outlet (2P)		1

1U-3109 AUDIO IN DSP UNIT

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC601	263 0896 909	IC NJM2068MD	
IC603	262 2034 009	IC TC9273N-007	
IC606	263 0898 907	IC NJM5532MD	
IC701	262 2490 902	IC PCM1716E	
IC702,703	263 0896 909	IC NJM2068MD	
IC731	263 0615 902	IC BA15218F	
IC751	262 2490 902	IC PCM1716E	
IC752,753	263 0896 909	IC NJM2068MD	
IC801	262 2490 902	IC PCM1716E	
IC802~804	263 0896 909	IC NJM2068MD	
IC851,852	263 0934 900	IC BA4510F	
IC853	263 0673 902	IC BA10393F	
IC854	262 2426 905	IC AK5351-VF	
IC855	399 0300 008	Crystal SG-531PH(12.288MHZ)	
IC900	263 1048 002	IC BA033T	
IC901	262 2370 103	IC ZR38600(B6)	
IC902	262 2376 903	IC TC74HCT7007AF	
IC903	262 2489 007	IC TMP87CM43N-****	
IC904	262 1718 902	IC TC74HC00AF	
IC905	262 1348 903	IC TC74HC123AF	
IC906	262 2385 907	IC SN74HC14NS	
IC907	262 1348 903	IC TC74HC123AF	
IC908	262 2284 901	IC TC74HCT157AF	
IC909	262 1665 903	IC HD74HC74FP	
IC910	262 1641 901	IC HD74HC157FP	
IC911	262 2491 901	IC CS8414-CS	
TR601,602	275 0094 908	FET 2SK209-GR	
TR603	269 0055 900	Transistor DTA144EK	
TR604	269 0054 901	Transistor DTC144EK	
TR701~704	273 0414 906	Transistor 2SC3326(A/B)	
TR707	269 0083 901	Transistor DTA114EK	
TR731	275 0094 908	FET 2SK209-GR	
TR732	269 0055 900	Transistor DTA144EK	
TR733	269 0054 901	Transistor DTC144EK	
TR751~754	273 0414 906	Transistor 2SC3326(A/B)	
TR757	269 0083 901	Transistor DTA114EK	
TR801~804	273 0414 906	Transistor 2SC3326(A/B)	
TR807	269 0083 901	Transistor DTA114EK	
TR852	269 0083 901	Transistor DTA114EK	
TR901,902	269 0082 902	Transistor DTC114EK	
TR903	269 0054 901	Transistor DTC144EK	
D601	276 0438 949	Diode MA151WK	
D731	276 0438 910	Diode MA151A	
D856,857	276 0438 949	Diode MA151WK	
D859	276 0438 949	Diode MA151WK	
D901,902	276 0438 910	Diode MA151A	
RESISTORS GROUP			
R519~522	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R523~526	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R601,602	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R603,604	247 0006 946	Carbon chip 390 ohm 1/10W	RM73B--391J
R605,606	247 0011 986	Carbon chip 68 kohm 1/10W	RM73B--683J
R607,608	247 0012 969	Carbon chip 150 kohm 1/10W	RM73B--154J
R609,610	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R611,612	247 0005 992	Carbon chip 240 ohm 1/10W	RM73B--241J
R613,614	247 0012 956	Carbon chip 130 kohm 1/10W	RM73B--134J
R615,616	247 0009 998	Carbon chip 11 kohm 1/10W	RM73B--113J
R617,618	247 0003 949	Carbon chip 22 ohm 1/10W	RM73B--220J
R619,620	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R621,622	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R625~634	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R635~644	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R663,664	247 0006 962	Carbon chip 470 ohm 1/10W	RM73B--471J
R665,666	247 0015 966	Carbon chip 2.7 Mohm 1/10W	RM73B--275J
R667,668	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R671,672	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R673,674	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R677,678	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R679,680	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R681	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R683,684	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R685,686	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R691,692	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R701~708	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R709,710	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R711	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R712	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R713,714	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R715,716	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B--221J
R717~720	247 0007 961	Carbon chip 1.2 kohm 1/10W	RM73B--122J
R721~724	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332J
R725,726	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R727,728	247 0009 943	Carbon chip 6.8 kohm 1/10W	RM73B--682J
R729,730	247 0009 943	Carbon chip 6.8 kohm 1/10W	RM73B--682J
R735,736	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R737,738	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R741~743	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R744,745	247 0010 974	Carbon chip 24 kohm 1/10W	RM73B--243J

Ref. No.	Part No.	Part Name	Remarks
R746	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R747	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R748	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R751	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R752	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R753	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R754	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R755~758	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R759,760	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R761	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R762	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R763,764	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R765,766	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B--221J
R767~770	247 0005 976	Carbon chip 200 ohm 1/10W	RM73B--201J
R771~774	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332J
R775,776	247 0010 932	Carbon chip 16 kohm 1/10W	RM73B--163J
R777,778	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R781	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R782	247 0009 914	Carbon chip 5.1 kohm 1/10W	RM73B--512J
R784	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R785,786	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R787,788	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R789,790	247 0007 990	Carbon chip 1.6 kohm 1/10W	RM73B--162J
R801~808	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R809,810	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R811	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R812	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R813,814	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R815,816	247 0005 989	Carbon chip 220 ohm 1/10W	RM73B--221J
R817~820	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R821~824	247 0008 960	Carbon chip 3.3 kohm 1/10W	RM73B--332J
R825,826	247 0010 932	Carbon chip 16 kohm 1/10W	RM73B--163J
R827,828	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R831,832	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R835,836	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R837,838	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R839,840	247 0007 990	Carbon chip 1.6 kohm 1/10W	RM73B--162J
R851~854	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R855,856	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R857,858	247 0009 998	Carbon chip 11 kohm 1/10W	RM73B--113J
R859,860	247 0008 986	Carbon chip 3.9 kohm 1/10W	RM73B--392J
R861~864	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R865~868	247 0006 920	Carbon chip 330 ohm 1/10W	RM73B--331J
R869	247 0019 991	Carbon chip 4.7 kohm 1/10W	RM73B--472F
R870	247 0020 906	Carbon chip 12 kohm 1/10W	RM73B--123F
R871~873	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R874,875	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R878~880	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R882	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R883,884	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R885~887	247 0010 916	Carbon chip 13 kohm 1/10W	RM73B--133J
R889	247 0010 916	Carbon chip 13 kohm 1/10W	RM73B--133J

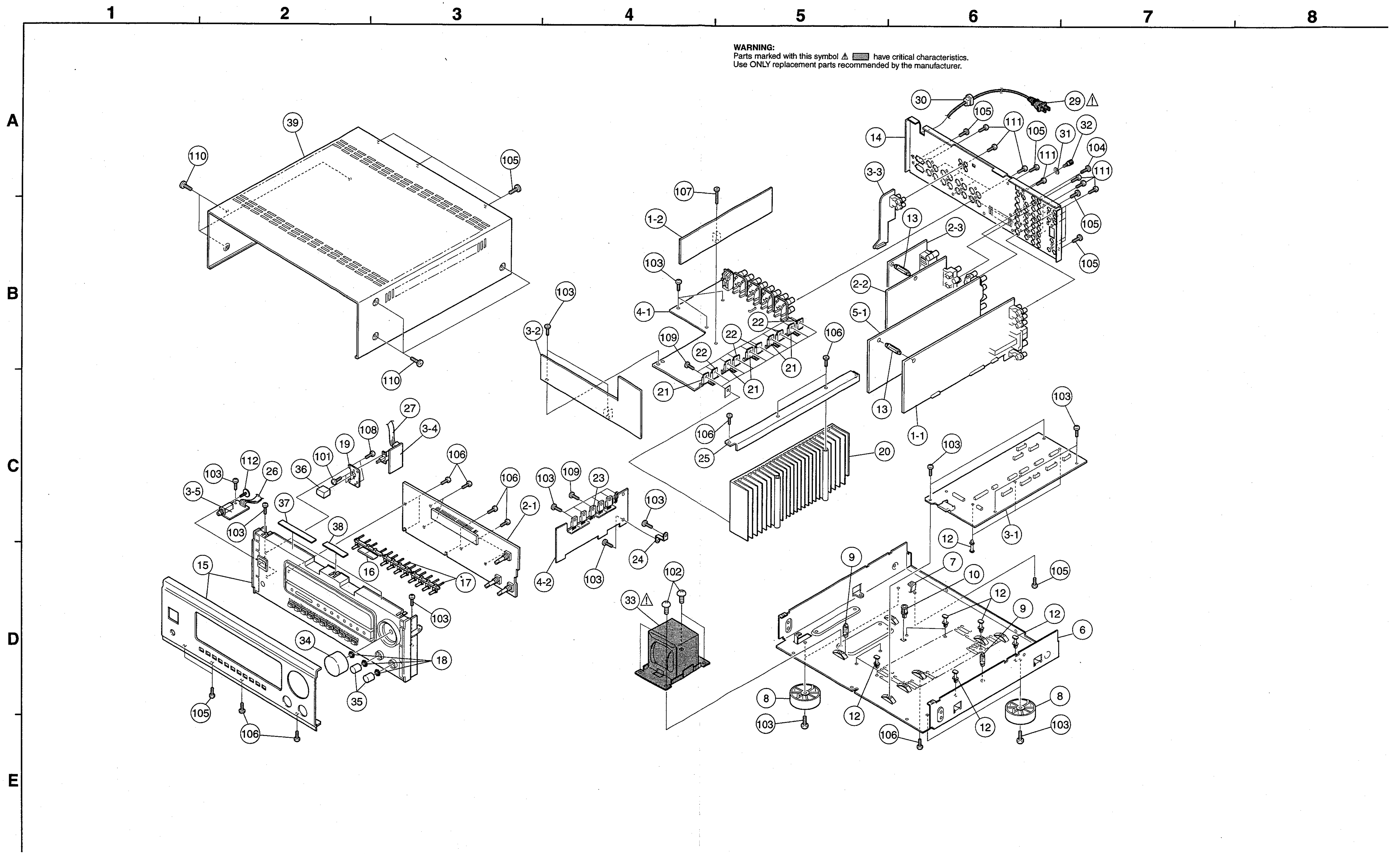
Ref. No.	Part No.	Part Name	Remarks
R892,893	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R894,895	247 0005 905	Carbon chip 100 ohm 1/10W	RM73B--101J
R896,897	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R899,900	247 0012 969	Carbon chip 150 kohm 1/10W	RM73B--154J
R901	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R902	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R904,905	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R906,907	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R908	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R909,910	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R913~915	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R916,917	247 0012 927	Carbon chip 100 kohm 1/10W	RM73B--104J
R918	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R920	247 0014 967	Carbon chip 1 Mohm 1/10W	RM73B--105J
R921	247 0011 902	Carbon chip 33 kohm 1/10W	RM73B--333J
R922	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R929	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R931~933	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R934	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R935	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R936	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R937,938	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R939~942	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R943	247 0007 945	Carbon chip 1 kohm 1/10W	RM73B--102J
R944	247 0018 905	Carbon chip 0 ohm 1/10W	RM73B--0R0K
R951	247 0009 901	Carbon chip 4.7 kohm 1/10W	RM73B--472J
R952	247 0009 985	Carbon chip 10 kohm 1/10W	RM73B--103J
R953~955	247 0004 922	Carbon chip 47 ohm 1/10W	RM73B--470J
R956~958	247 0011 944	Carbon chip 47 kohm 1/10W	RM73B--473J
R985,986	247 0010 916	Carbon chip 13 kohm 1/10W	RM73B--133J
CAPACITORS GROUP			
C601,602	257 0005 944	Ceramic chip 220 pF/50V	CC73SL1H221J
C603,604	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C605,606	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C607,608	254 4250 932	Electrolytic 220µF/6.3V	CE04W0J221M
C609,610	255 4199 999	Mylar film 0.024µF/50V	CQ92M1H243J(MRZ)
C611,612	255 1265 907	Mylar film 6800 pF/50V	CQ93M1H682J(B)
C613,614	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H487M
C615,616	257 0012 982	Ceramic chip 0.022µF/50V	CK73F1H223Z
C645	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C647	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C649	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C651	254 4260 977	Electrolytic 4.7µF/50V	CE04W1H4R7M
C655,656	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C657,658	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C671,672	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C701~704	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C705~708	257 0006 969	Ceramic chip 680 pF/50V	CC73SL1H681J
C711,712	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C713,714	255 1265 952	Mylar film 0.015µF/50V	CQ93M1H153J(B)

Ref. No.	Part No.	Part Name	Remarks
C715,716	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C717,718	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C733	256 1058 942	Metalized 0.056µF/50V	CF93A1H563J (JL)
C721,722	257 0003 988	Ceramic chip 47 pF/50V	CC73SL1H470J
C734	256 1058 984	Metalized 0.12µF/50V	CF93A1H124J (JL)
C735,736	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C737	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C742	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C743,744	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C745~747	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C748,749	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C751~754	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C755	257 0006 969	Ceramic chip 680 pF/50V	CC73SL1H681J
C756	257 0011 983	Ceramic chip 0.047µF/25V	CK73B1E473K
C757	257 0006 969	Ceramic chip 680 pF/50V	CC73SL1H681J
C758	257 0011 967	Ceramic chip 0.033µF/25V	CK73B1E333K
C761,762	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C763,764	255 1265 952	Mylar film 0.015µF/50V	CQ93M1H153J(B)
C765~768	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C775	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C776	257 0010 900	Ceramic chip 0.01µF/50V	CK73B1H103K
C792	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C793,794	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C795~797	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C798,799	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C801~804	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C805~808	257 0006 969	Ceramic chip 680 pF/50V	CC73SL1H681J
C811,812	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C813,814	255 1265 952	Mylar film 0.015µF/50V	CQ93M1H153J(B)
C815~818	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C821~824	256 1059 912	Metalized 0.22µF/50V	CF93A1H224J (JL)
C825,826	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C827,828	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C835,836	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C842	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C843,844	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C845~847	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C848,849	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C851,852	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C853,854	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C855,856	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C857,858	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C859,860	255 1264 924	Mylar film 1500 pF/50V	CQ93M1H152J(B)
C861	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C862	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C865	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C866	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C867	254 4254 941	Electrolytic 100µF/16V	CE04W1C101M
C888,889	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C890	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C892,893	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C894	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M

Ref. No.	Part No.	Part Name	Remarks
C895,896	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C897,898	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C899	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C901,902	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C903	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
C905	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C906	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C907	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C908	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C909	257 0007 900	Ceramic chip 1000 pF/50V	CC73SL1H102J
C913	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C914	257 0007 900	Ceramic chip 1000 pF/50V	CC73SL1H102J
C915	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C916	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C917	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C918	257 0011 983	Ceramic chip 0.047µF/25V	CK73B1E473K
C919	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C920	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C921	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C922	257 0007 900	Ceramic chip 1000 pF/50V	CC73SL1H102J
C923	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C927	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C928,929	257 0004 903	Ceramic chip 56 pF/50V	CC73SL1H560J
C930	257 0005 944	Ceramic chip 220 pF/50V	CC73SL1H221J
C931	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C932	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C934	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C936	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C937,938	254 4260 935	Electrolytic 0.47µF/50V	CE04W1HR47M
C940,941	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C942	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C943	257 0005 986	Ceramic chip 330 pF/50V	CC73SL1H331J
C947	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M
C948	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C949	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C950	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C951	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C952	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C953	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C954~958	257 0012 966	Ceramic chip 0.01µF/50V	CK73F1H103Z
C959	256 1058 939	Metalized 0.047µF/50V	CF93A1H473J (JL)
C960	257 0014 935	Ceramic chip 0.1µF/25V	CK73F1E104Z
C961~964	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
C965~968	257 0004 961	Ceramic chip 100 pF/50V	CC73SL1H101J
C995	257 0008 983	Ceramic chip 1000 pF/50V	CK73B1H102K
C997~999	256 1058 971	Metalized 0.1µF/50V	CF93A1H104J (JL)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER PARTS				
CW041	205 0885 082	4P connector socket (TUC-P)		1
CW071	205 0942 022	7P connector socket (TUC-P)		1
CW102	205 0885 053	10P connector socket (TUC-P)		1
CW114	205 0885 066	11P connector socket (TUC-P)		1
CW151	205 0885 040	15P connector socket (TUC-P)		1
CW157	205 0885 040	15P connector socket (TUC-P)		1
CX103	205 0375 000	10P connector base (KR-PH)		1
FB701~709	235 0049 900	Beads inductor		9
FB851~854	235 0049 900	Beads inductor		4
FB901~917	235 0106 908	Chip emifil (21A05)		17
FB918,919	235 0049 900	Beads inductor		2
FB923~928	235 0049 900	Beads inductor		6
FB929	235 0106 908	Chip emifil (21A05)		1
FB930	235 0049 900	Beads inductor		1
FB931~933	235 0106 908	Chip emifil (21A05)		3
FB934	235 0049 900	Beads inductor		4
FB935~940	235 0106 908	Chip emifil (21A05)		6
FB941	235 0049 900	Beads inductor		1
FB942,943	235 0106 908	Chip emifil (21A05)		2
FB945,946	235 0106 908	Chip emifil (21A05)		2
JK501	204 8543 006	6 P pin jack		1
JK601,602	204 8543 006	6 P pin jack		2
X901	399 0191 903	Ceramic 4.00 MHz	CST4.00MGW -TF01	1

EXPLODED VIEW OF CHASSIS AND CABINET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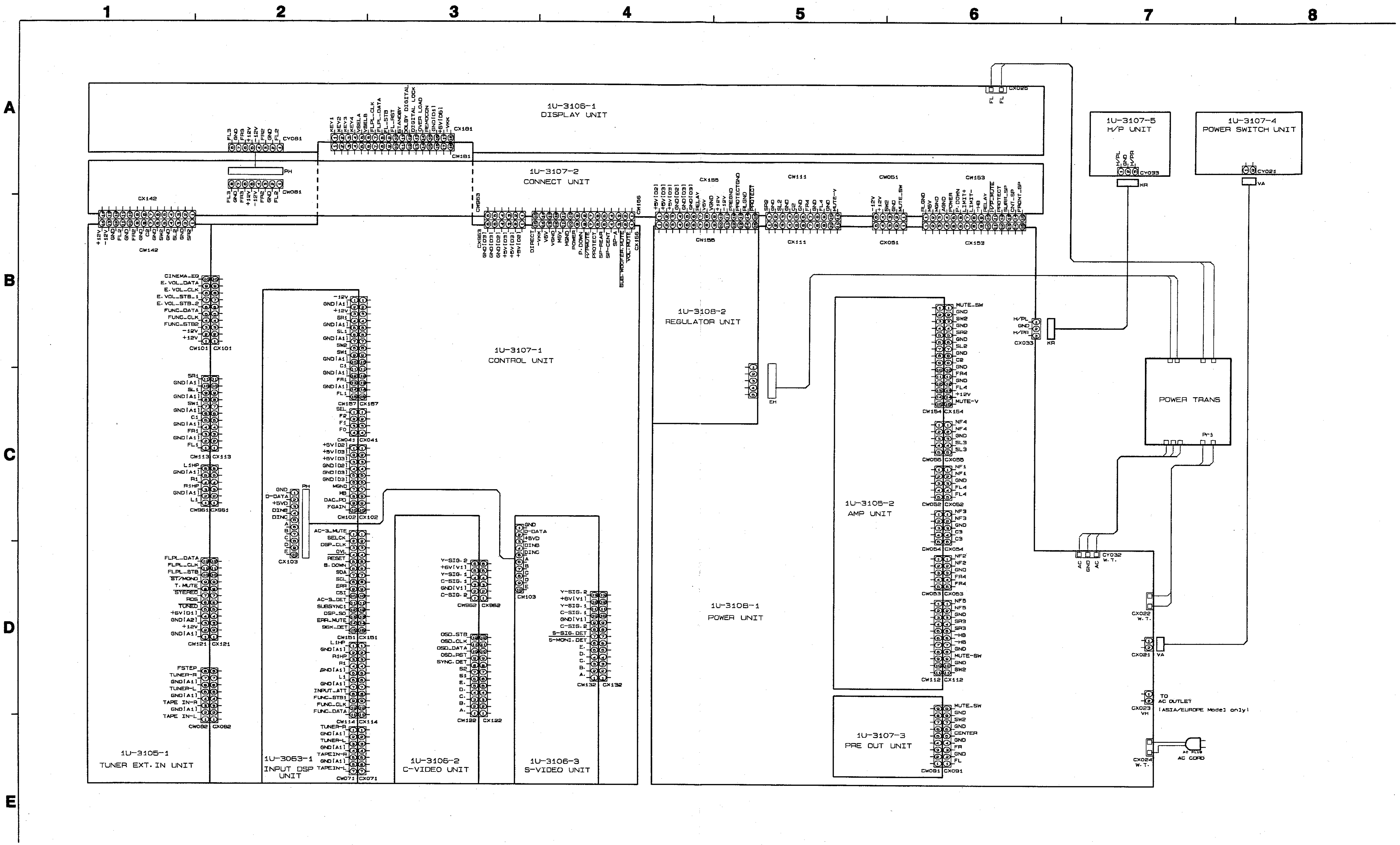
WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

PARTS LIST OF EXPLODED VIEW

Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	1U-3105	Tuner amp. unit ass'y		1
1-1	1U-3105-1	Tuner VR unit		
1-2	1U-3105-2	Amp. unit		
2	1U-3106	Display video unit ass'y		1
2-1	1U-3106-1	Display unit		
2-2	1U-3106-2	C - video unit		
2-3	1U-3106-3	S - video unit		
3	1U-3107	Control unit ass'y		1
3-1	1U-3107-1	Control unit		
3-2	1U-3107-2	Connect unit		
3-3	1U-3107-3	Pre out unit		
3-4	1U-3107-4	Power switch unit		
3-5	1U-3107-5	Headphones unit		
4	1U-3108	Power amp. unit ass'y		1
4-1	1U-3108-1	Power amp. unit		
4-2	1U-3108-2	Regulator unit		
5	1U-3109	Audio in DSP unit ass'y		1
5-1	1U-3109-1	Audio in DSP unit		
6	411 1372 416	Main chassis		1
7	412 4210 002	Bracket		1
8	104 0194 205	Foot ass'y		4
9	449 0133 017	PWB holder		2
10	412 3548 005	P.W.B. catcher		1
12	412 2814 028	Card spacer (L=10)		11
13	449 0133 004	PWB holder		2
14	105 1281 000	Back panel		1
15	146 2065 019	Inner panel ass'y		1
16	113 1804 006	Tuning knob		1
17	113 1805 005	Function knob		2
18	–	9 nut		3
19	412 4163 007	Switch bracket		1
20	417 0569 008	Power radiator		1
21	273 0389 031	Transistor 2SC3855 LB(O/P/Y)(Z)		5
22	271 0240 035	Transistor 2SA1491 LB(O/P/Y)(Z)		5
23	271 0239 020	Transistor 2SA1489 LB1 (O/P/Y)		1
24	412 4127 001	P.W.B. bracket (B)		1
25	412 4296 000	Radiator bracket		1
26	203 4871 067	3P KR-KR ribbon 175	CN033	1
27	203 2374 029	2P VA-VA cord	CN021	1
28	445 8004 007	Wire clamper		3
⚠ 29	206 2060 002	AC cord (polarized)		1
30	445 0056 008	Cord bush		1
31	477 0018 014	Washer (P-87) D10		1
32	205 0071 016	Terminal ass'y		1
⚠ 33	233 6253 008	Power trans. (EU/EC)		1
34	112 0744 067	VR. knob ass'y		1
35	112 0685 100	Knob (MARU)		2
36	113 9213 000	P. knob (P) ass'y		1
37	461 0976 009	Rubber sheet		2
38	461 0976 012	Rubber sheet		1
39	102 0590 036	Top cover		1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
SCREWS				
101	471 3303 016	Screw 3 x 6 CBS-Z		2
102	473 7004 016	Screw 4 x 6 CBTS (S)-Z		4
103	473 7005 002	Screw 3 x 10 CBTS(S)-Z		24
104	473 7006 043	Screw 3 x 14 CBTS (S)-B		1
105	473 7015 018	Screw 3 x 8 CBTS(S)-B		11
106	473 7501 001	Screw 3 x 10 CBTS (P)-Z		15
107	473 7501 030	Screw 3 x 20 CBTS (P)-Z		1
108	473 7505 007	Screw 2.6 x 8 CBTS(P)-Z		2
109	473 8007 009	Cup screw 3 x 12		11
110	473 8064 000	Screw 4 x 8 CBTS(B)-B-3P		6
111	477 0064 107	Fixing screw		24
112	477 0262 006	Special screw		1
PACKING & ACCESSORIES				
201	504 9102 029	Stylen paper		1
202	505 9102 019	Poly. cover		1
203	503 1236 204	Cushion ass'y		1
204	505 8006 019	Envelope		1
205	511 3263 001	Instruction manual		1
206	231 0922 009	Loop antenna		1
207	395 0023 008	FM antenna ass'y		1
208	399 0498 004	RC-844 remocon unit		1
209	515 0671 601	Service station list (EX)		1
210	529 0079 008	FM ant. adapter		1
211	501 1988 048	Carton case		1
212	513 1389 006	Control card base		1
213	513 1349 004	Thermal carbon film		1
214	517 1318 066	UPC label		1

WIRING DIAGRAM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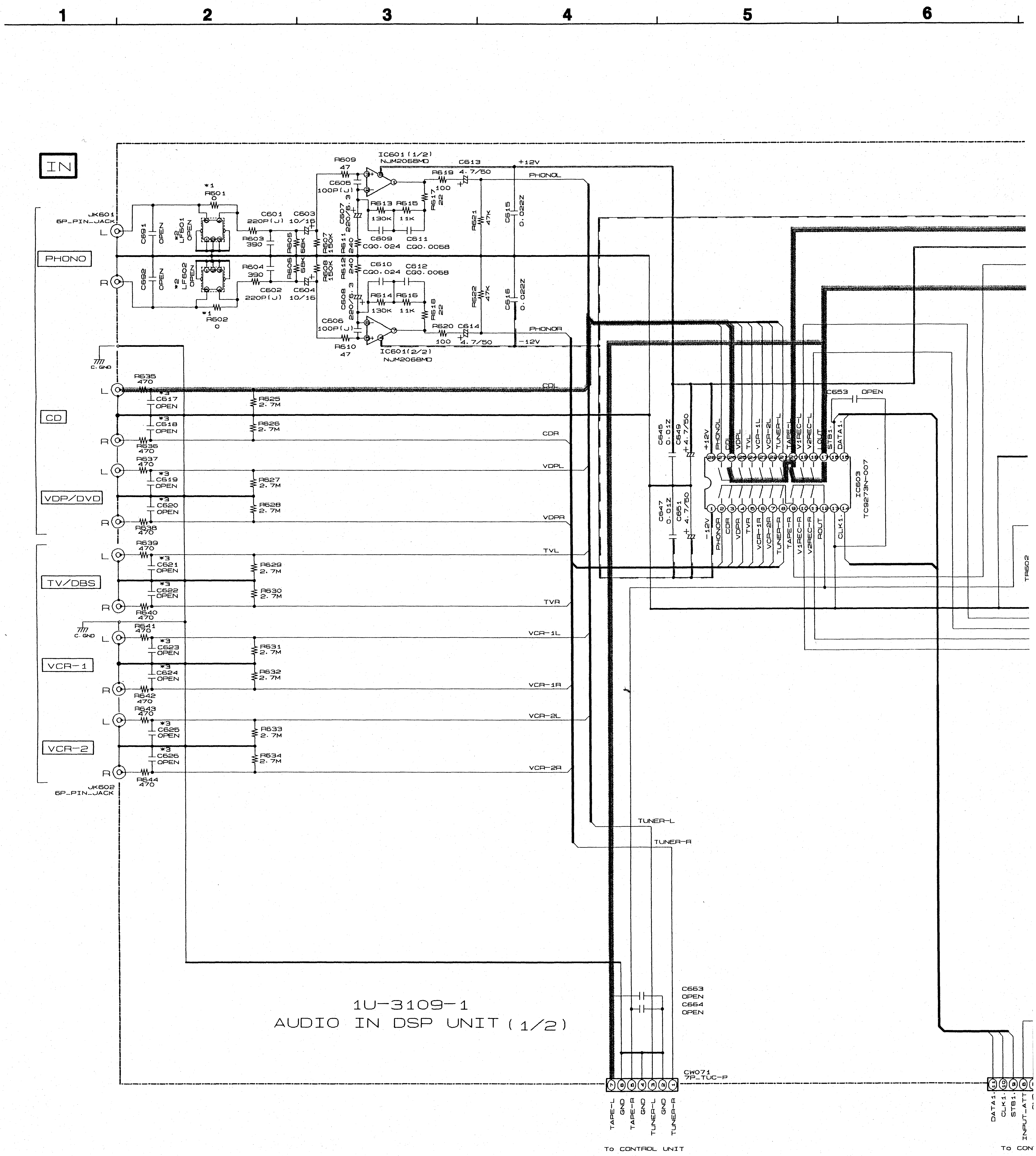
DISPLAY UNIT
CX181
CW181
CX025
FL
FL
CY081
CW081
PH
1U-3107-2
CONNECT UNIT
CX142
CW142
CW963
CX963
CX155
CW155
CW111
CX111
CW051
CX051
CW153
CX153
1U-3107-5
H/P UNIT
CY033
KR
1U-3107-4
POWER SWITCH UNIT
CY021
VA
1U-3107-1
CONTROL UNIT
CW101
CX101
CW113
CX113
CW961
CX961
CW121
CX121
CW082
CX082
1U-3105-1
TUNER EXT. IN UNIT
CW157
CX157
CW041
CX041
CW102
CX102
CX103
CW151
CX151
CW114
CX114
CW071
CX071
1U-3063-1
INPUT DSP
UNIT
CW962
CX962
CW122
CX122
1U-3106-2
C-VIDEO UNIT
CW103
CW132
CX132
1U-3106-3
S-VIDEO UNIT
1U-3108-2
REGULATOR UNIT
EH
1U-3108-1
POWER UNIT
1U-3105-2
AMP UNIT
CW154
CX154
CW055
CX055
CW052
CX052
CW054
CX054
CW053
CX053
CW112
CX112
1U-3107-3
PRE OUT UNIT
CW091
CX091
H/PL
GND
H/PR
CX033
KR
POWER TRANS
Pri
CY032
W.T.
AC
GND
AC
CX022
W.T.
CX021
VA
TO
AC OUTLET
[ASIA/EUROPE Model only]
CX023
VH
CX024
W.T.
AC PLUG
AC CORD

SCHEMATIC DIAGRAM (1/10)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VCR-2
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JK602
6P_PIN_JACK
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C692 OPEN
*2 LF601 OPEN
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R604 390
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C602 220P(J)
C603 10/16
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R607 150K
R608 150K
C507 220/6.3
C608 220/6.3
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R612 240
R609 47
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C606 100P(J)
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IC601(2/2) NJM2068MD
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R614 130K
R616 11K
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C612 CQ0.0068
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R618 22
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R620 100
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C614 4.7/50
R621 47K
R622 47K
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C616 0.022Z
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R637 470
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R641 470
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R634 2.7M
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VDPL
VDPR
TVL
TVR
VCR-1L
VCR-1R
VCR-2L
VCR-2R
TUNER-L
TUNER-R
C645 0.01Z
C647 0.01Z
C649 4.7/50
C651 4.7/50
C653 OPEN
IC603 TC9273N-007
-12V
PHONOR
CDR
VDPR
TVR
VCR-1R
VCR-2R
TUNER-R
TAPE-R
V1REC-R
V2REC-R
ROUT
CLK1.
+12V
PHONOL
CDL
VDPL
TVL
VCR-1L
VCR-2L
TUNER-L
TAPE-L
V1REC-L
V2REC-L
LOUT
STB1.
DATA1.
1U-3109-1
AUDIO IN DSP UNIT (1/2)
C663 OPEN
C664 OPEN
CW071
7P_TUC-P
TAPE-L
GND
TAPE-R
GND
TUNER-L
GND
TUNER-R
To CONTROL UNIT
1U-3107-1
(SHEET 10/10)
DATA1.
CLK1.
STB1.
INPUT_ATT
To CON
1U-
(SH
TR602

	*1 R601.602	*2 LF601.602	*3 C617～626	*4 C509～512 C661.662
USA TAIWAN R.O.C. JAPAN	0	—	—	—
ASIA EUROPE	4.7K	L.P.F	330p	100P

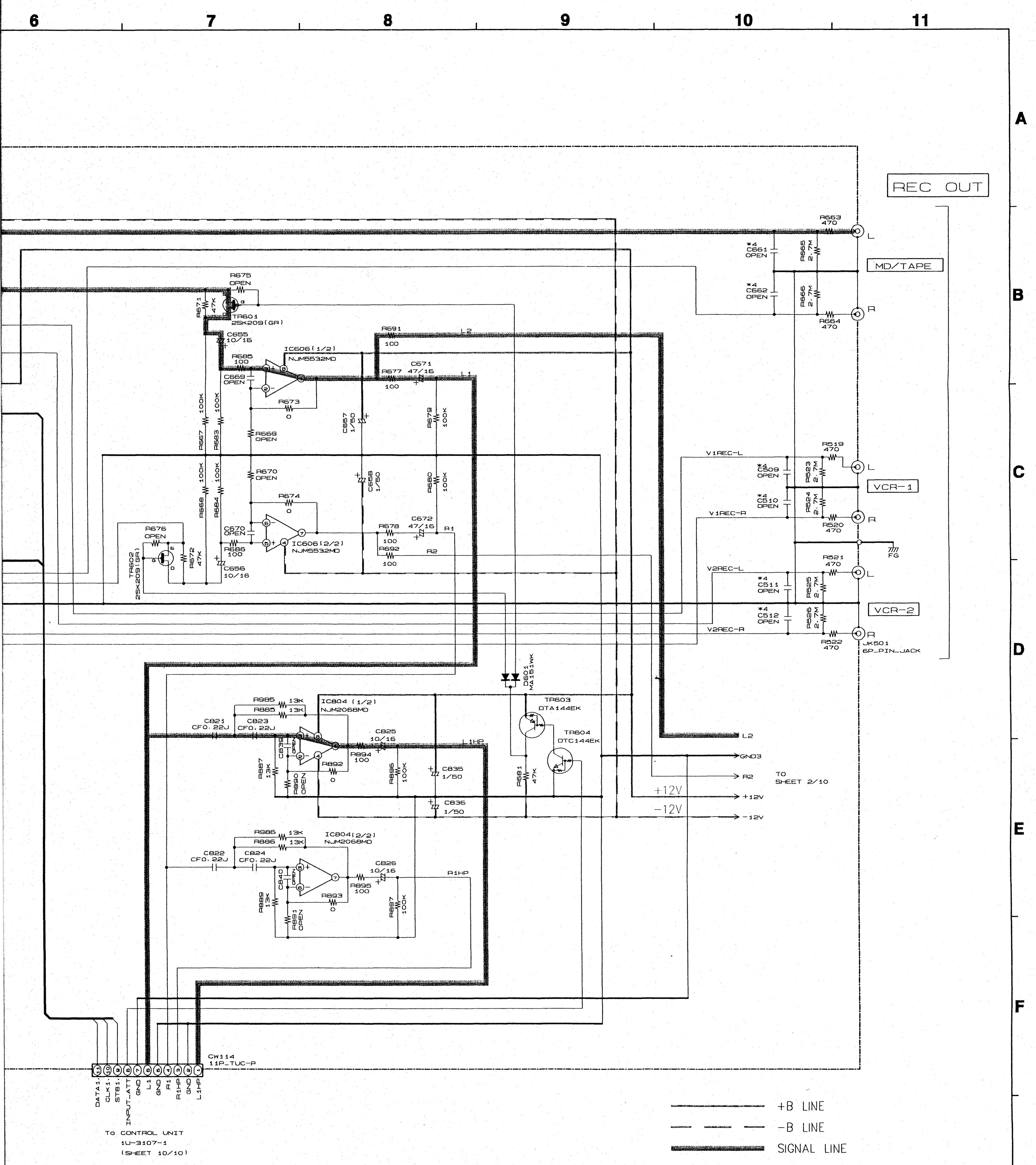
NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIO NOTICE.


6
7
8
9
10
11
A
B
C
D
E
F
G
REC OUT
MD/TAPE
VCR−1
VCR−2
L
R
R663 470
R664 470
*4 C661 OPEN
*4 C662 OPEN
R665 2.7M
R666 2.7M
V1REC−L
V1REC−R
V2REC−L
V2REC−R
R519 470
R520 470
R521 470
R522 470
*4 C509 OPEN
*4 C510 OPEN
*4 C511 OPEN
*4 C512 OPEN
R523 2.7M
R524 2.7M
R525 2.7M
R526 2.7M
FG
JK501 6P_PIN_JACK
R675 OPEN
R671 47K
TR601 2SK209(GR)
C655 10/16
R691 100
L2
IC606(1/2) NJM5532MD
R685 100
C669 OPEN
C671 47/16
R677 100
L1
R673 0
C657 1/50
R679 100K
R667 100K
R683 100K
R669 OPEN
R670 OPEN
R668 100K
R684 100K
C658 1/50
R680 100K
R674
C672 47/16
R1
R2
R676 OPEN
TR602 2SK209(GR)
R672 47K
C670 OPEN
R686 100
IC606(2/2) NJM5532MD
R678 100
R692 100
C656 10/16
D601 MA151WK
TR603 DTA144EK
TR604 DTC144EK
R681 47K
R985 13K
R885 13K
IC804(1/2) NJM2068MD
C821 CF0.22J
C823 CF0.22J
C825 10/16
C839 OPEN
R894 100
R887 13K
R890 OPEN
R892 0
R896 100K
C835 1/50
C836 1/50
L1HP
L2
GND3
R2
+12V
−12V
TO SHEET 2/10
R986 13K
R886 13K
IC804(2/2) NJM2068MD
C822 CF0.22J
C824 CF0.22J
C826 10/16
C840 OPEN
R895 100
R889 13K
R891 OPEN
R893 0
R897 100K
R1HP
CW114 11P_TUC_P
DATA1
CLK1
STB1
INPUT_ATT
GND
L1
GND
R1
R1HP
GND
L1HP
TO CONTROL UNIT 1U-3107-1 (SHEET 10/10)
+B LINE
−B LINE
SIGNAL LINE

M. k=1,000 OHM M=1,000,000 OHM
ICRO FARAD. P=MICRO-MICRO FARAD
ARE MEASURED AT NO SIGNAL INPUT

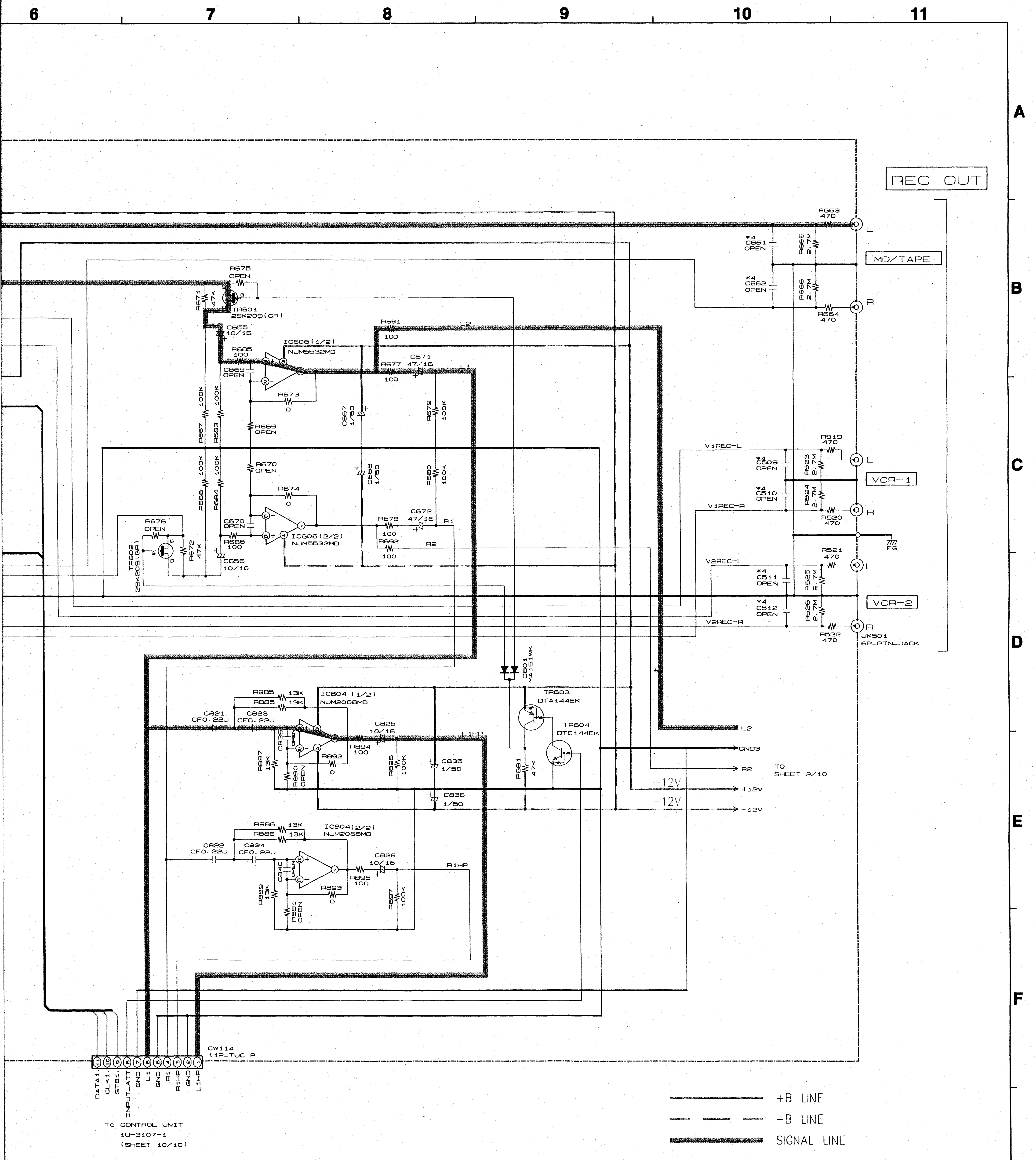
CT TO CHANGE WITHOUT PRIOR

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer unit the problem is located and corrected.

SCHEMATIC DIAGRAM (1/10)


6
7
8
9
10
11
A
B
C
D
E
F
REC OUT
R663 470
L
*4 C661 OPEN
R665 2.7M
MD/TAPE
*4 C662 OPEN
R666 2.7M
R
R664 470
R675 OPEN
R671 47K
TR601 2SK209(GR)
C655 10/16
R691 100
L2
IC606(1/2) NJM5532MD
R685 100
C669 OPEN
C671 47/16
R677 100
L1
R673 0
R667 100K
R683 100K
C657 1/50
R679 100K
R669 OPEN
V1REC-L
R519 470
*4 C509 OPEN
R523 2.7M
VCR-1
R670 OPEN
R668 100K
R684 100K
C658 1/50
R680 100K
R674 0
*4 C510 OPEN
R524 2.7M
V1REC-R
R520 470
C672 47/16
R676 OPEN
R678 100
R1
C670 OPEN
IC606(2/2) NJM5532MD
R692 100
R2
FG
TR602 2SK209(GR)
R672 47K
R686 100
C656 10/16
V2REC-L
R521 470
*4 C511 OPEN
R525 2.7M
VCR-2
*4 C512 OPEN
R526 2.7M
V2REC-R
R522 470
JK501 6P_PIN_JACK
D601 MA151WK
R985 13K
R885 13K
IC804(1/2) NJM2068MD
TR603 DTA144EK
C821 CF0.22J
C823 CF0.22J
C825 10/16
TR604 DTC144EK
L1HP
C839
OPEN
R894 100
R887 13K
R890 OPEN
R892 0
R896 100K
C835 1/50
R681 47K
C836 1/50
L2
GND3
R2
+12V
-12V
+12V
-12V
TO SHEET 2/10
R986 13K
R886 13K
IC804(2/2) NJM2068MD
C822 CF0.22J
C824 CF0.22J
C826 10/16
R1HP
C840
OPEN
R895 100
R889 13K
R891 OPEN
R893 0
R897 100K
CW114 11P_TUC-P
DATA1
CLK1
STB1
INPUT_ATT
GND
L1
GND
R1
R1HP
GND
L1HP
TO CONTROL UNIT 1U-3107-1 (SHEET 10/10)
+B LINE
-B LINE
SIGNAL LINE
G

M. k=1,000 OHM M=1,000,000 OHM
ICRO FARAD. P=MICRO-MICRO FARAD
ARE MEASURED AT NO SIGNAL INPUT

CT TO CHANGE WITHOUT PRIOR

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer unit the problem is located and corrected.

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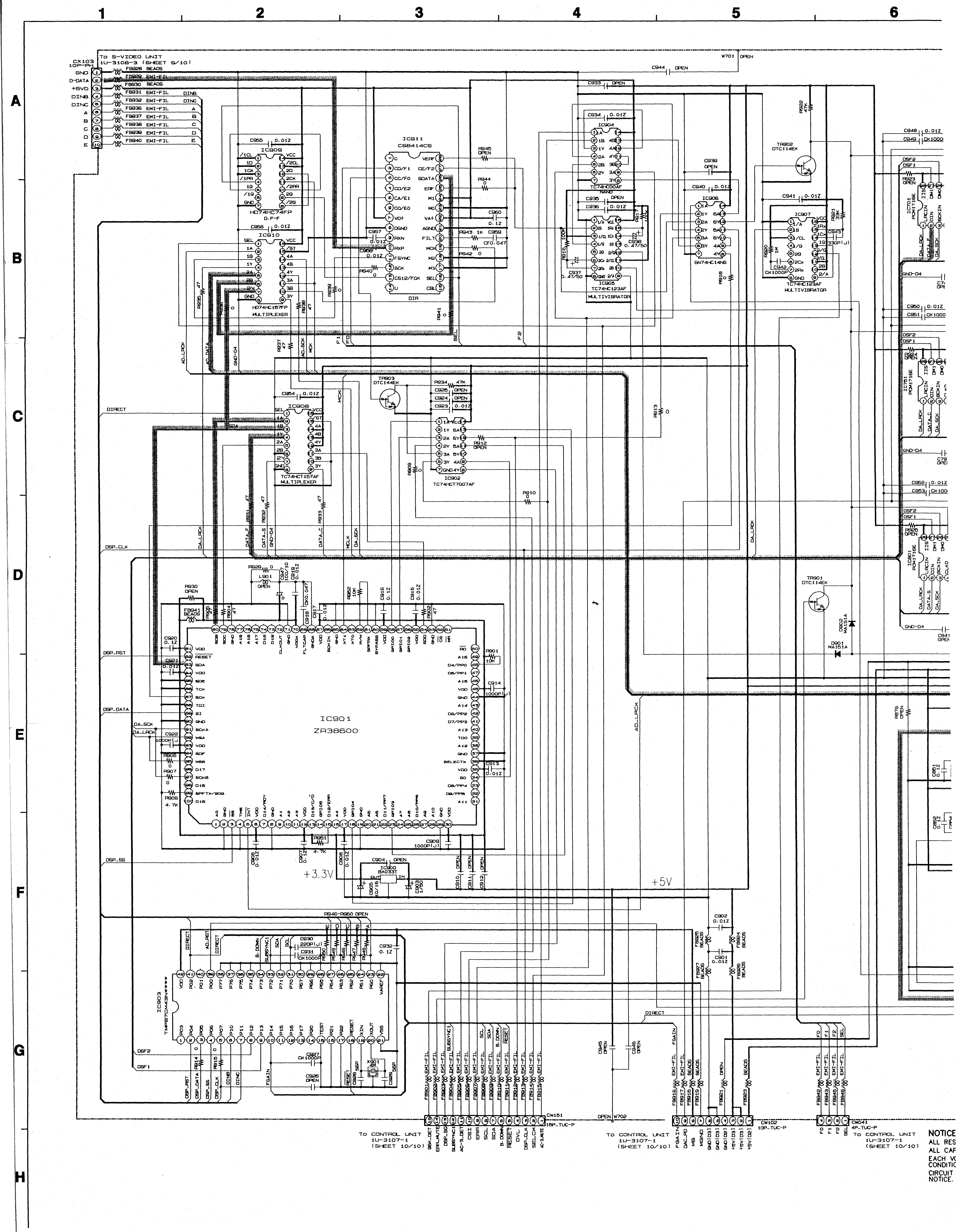
SCHEMATIC DIAGRAM (1/10)

SCHEMATIC DIAGRAM (2/10)


1
2
3
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5
6
A
B
C
D
E
F
G
H
CX103 10P-PH
To S-VIDEO UNIT 1U-3106-3 (SHEET 9/10)
IC909 HD74HC74FP D-F-F
IC910 HD74HC157FP MULTIPLEXER
IC911 CS8414CS DIR
IC904 TC74HC00AF NAND
IC905 TC74HC123AF MULTIVIBRATOR
IC906 SN74HC14NS
IC907 TC74HC123AF MULTIVIBRATOR
TR902 DTC114EK
TR903 DTC144EK
IC908 TC74HCT157AF MULTIPLEXER
IC902 TC74HCT7007AF
IC701 PCM1716E
IC751 PCM1716E
IC801 PCM1716E
TR901 DTC114EK
D901 MA151A
D902 MA151A
IC901 ZR38600
IC900 BA033T
+3.3V
+5V
IC903 TMP87CM43N****
R946-R950 OPEN
CW151 15P-TUC-P
To CONTROL UNIT 1U-3107-1 (SHEET 10/10)
CW102 10P-TUC-P
To CONTROL UNIT 1U-3107-1 (SHEET 10/10)
CW041 4P-TUC-P
To CONTROL UNIT 1U-3107-1 (SHEET 10/10)

NOTICE
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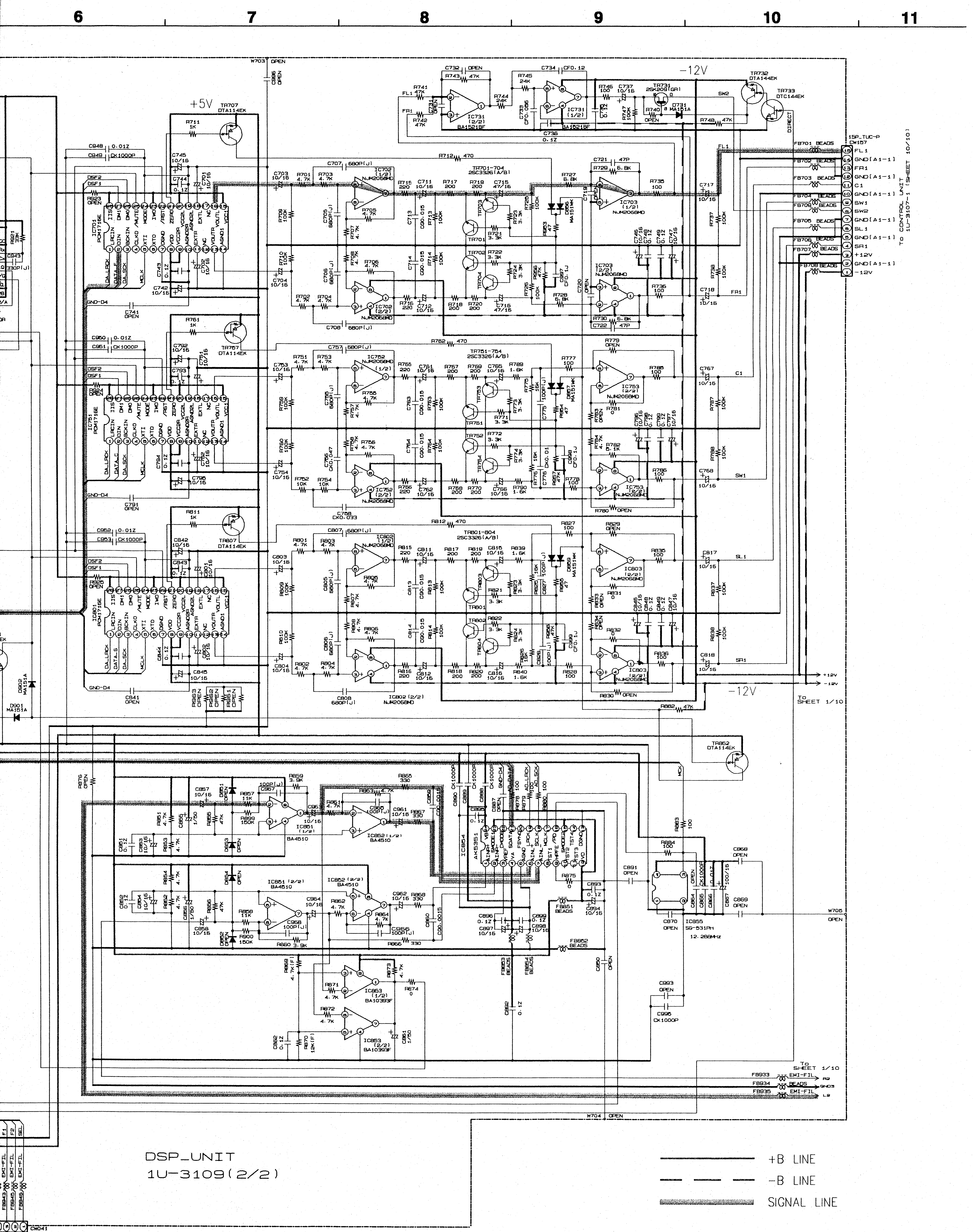
CIRCUIT
NOTICE.


6
7
8
9
10
11
+5V
-12V
DSP_UNIT
1U-3109(2/2)
+B LINE
-B LINE
SIGNAL LINE
IC701 PCM1716E
IC751 PCM1716E
IC801 PCM1716E
IC854 AK5351
IC855 SG-531PH 12.288MHz
15P_TUC-P CW157
To CONTROL UNIT 1U-3107-1 (SHEET 10/10)
To SHEET 1/10
CW041 4P_TUC-P
To CONTROL UNIT 1U-3107-1 (SHEET 10/10)
TR701-704 2SC3326(A/B)
TR751-754 2SC3326(A/B)
TR801-804 2SC3326(A/B)
DIRECT

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

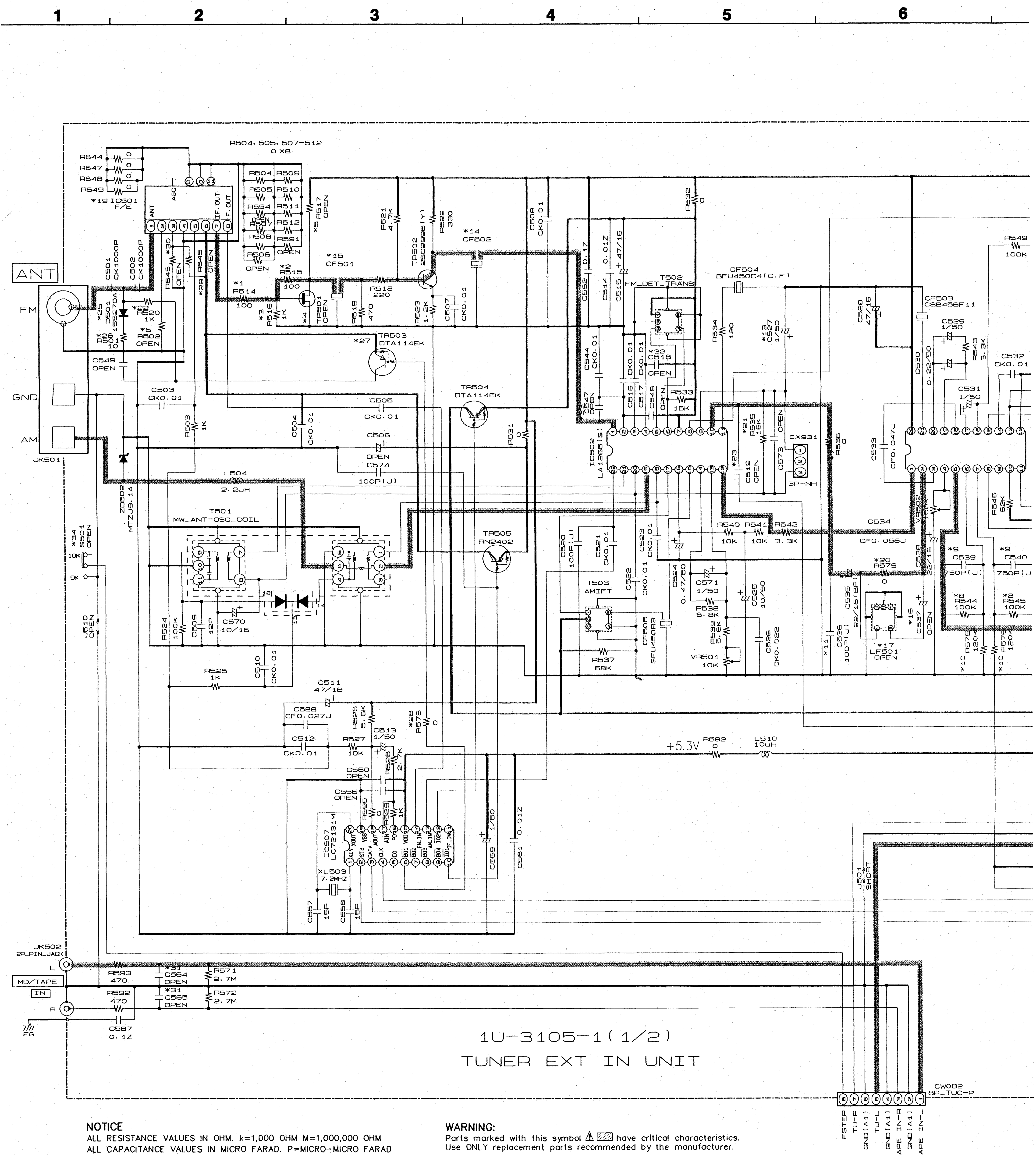
WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAM (2/10)

SCHEMATIC DIAGRAM (3/10)


1
2
3
4
5
6
ANT
FM
GND
AM
JK501
*19 IC501 F/E
R644
R647
R648
R649
R504, 505, 507-512 0 x8
C501 CK1000P
C502 CK1000P
*25 D501 1SS270A
R645 OPEN
*30
*29 R645 OPEN
*1 R514 100
*2 R515 100
*3 R516 1K
*4 TR501 OPEN
*5 R517 OPEN
*15 CF501
R518 220
R519 470
R521 4.7K
TR502 2SC2996(Y)
R522 330
R523 1.2K
C507 CK0.01
*14 CF502
C508 CK0.01
*27 TR503 DTA114EK
TR504 DTA114EK
TR505 RN2402
C549 OPEN
C503 CK0.01
R503 1K
C504 CK0.01
C505 CK0.01
C506 OPEN
C574 100P(J)
L504 2.2uH
ZD502 MTZJ9.1A
T501 MW_ANT-OSC_COIL
*34 S501 OPEN
J510 OPEN
R524 100K
C509 12P
C570 10/16
R525 1K
C510 CK0.01
C511 47/16
C588 CF0.027J
C512 CK0.01
R526 5.6K
R527 10K
C513 1/50
*28 R578 0
R528 2.7K
C560 OPEN
C556 OPEN
R595 0
R529 1K
IC507 LC72131M
XL503 7.2MHZ
C557 15P
C558 15P
C559 1/50
C561 0.01Z
R531 0
IC502 LA1265(S)
C562 0.1Z
C514 0.01Z
C515 47/16
T502 FM_DET_TRANS
C544 CK0.01
C547 OPEN
C516 CK0.01
C517 CK0.01
*32 C518 OPEN
C548 OPEN
R533 15K
R532 0
R534 120
CF504 BFU450C4(C.F)
*13 C527 1/50
*21 R535 18K
C573 OPEN
CX931 3P-NH
*7 R536 0
*23 C519 OPEN
C520 100P(J)
C521 CK0.01
T503 AMIFT
C522 CK0.01
C523 CK0.01
C524 0.47/50
C571 1/50
R538 6.8K
R539 5.6K
VR501 10K
R540 10K
R541 10K
R542 3.3K
C525 10/50
C526 CK0.022
CF505 SFU450B3
R537 68K
+5.3V
R582 0
L510 10uH
C528 47/16
C533 CF0.047J
C534 CF0.056J
*20 R579 0
C535 22/16(BP)
C536 100P(J)
*11
*17 LF501 OPEN
*16 C537 OPEN
C538 22/16
VR502 100K
CF503 CSB456F11
C529 1/50
R543 3.3K
C530 0.22/50
C531 1/50
C532 CK0.01
R549 100K
R546 62K
*9 C539 750P(J)
*9 C540 750P(J)
*8 R544 100K
*8 R545 100K
*10 R575 120K
*10 R576 120K
J501 SHORT
JK502 2P_PIN_JACK
L
R
MD/TAPE
IN
FG
R593 470
R592 470
*31 C564 OPEN
*31 C565 OPEN
R571 2.7M
R572 2.7M
C587 0.1Z
1U-3105-1(1/2)
TUNER EXT IN UNIT
CW082 8P_TUC-P
FSTEP
TU-R
GND(A1)
TU-L
GND(A1)
TAPE IN-R
GND(A1)
TAPE IN-L
To CONTROL UNIT 1U-3107-1 (SHEET 10/10)

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

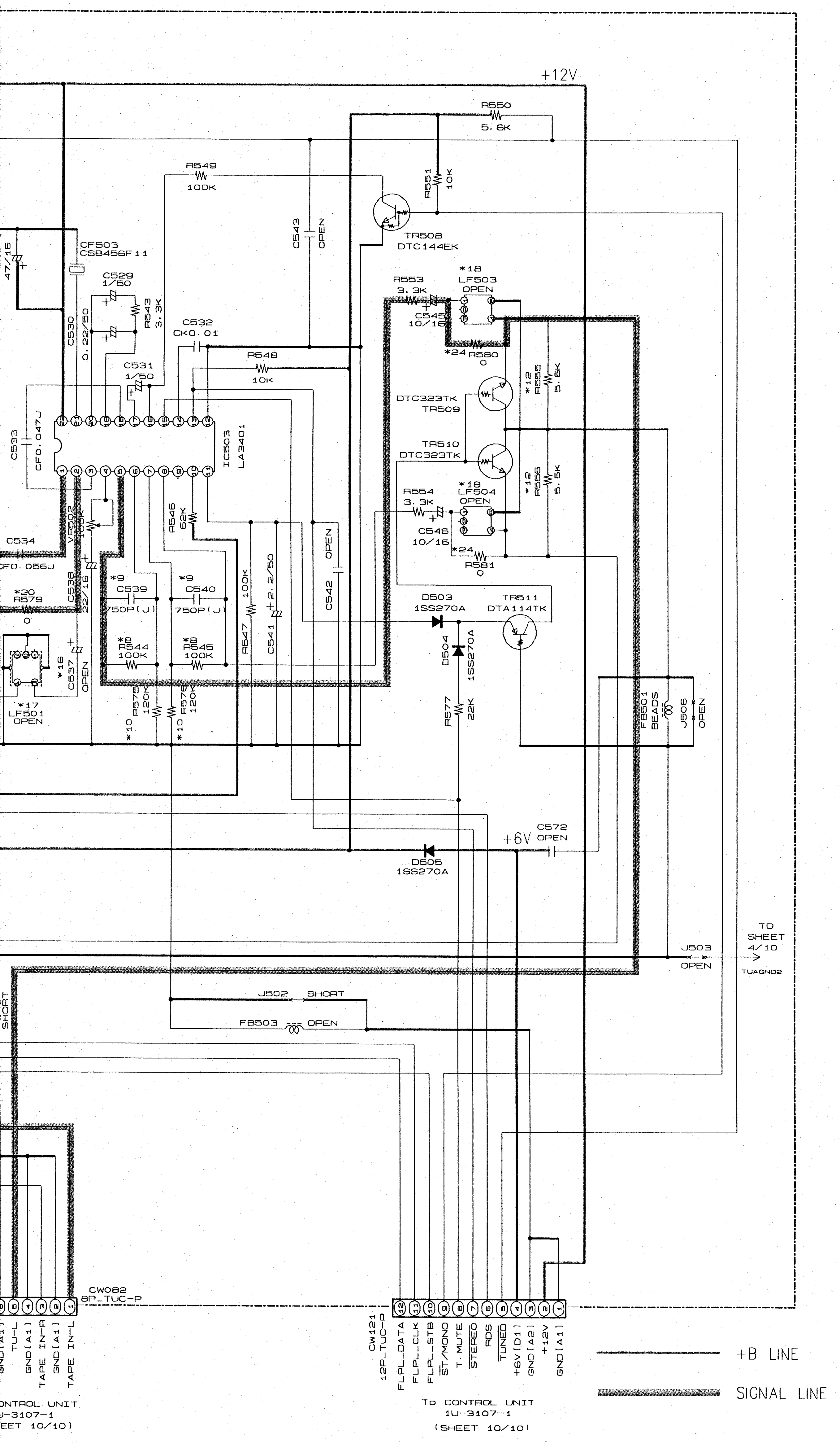
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:

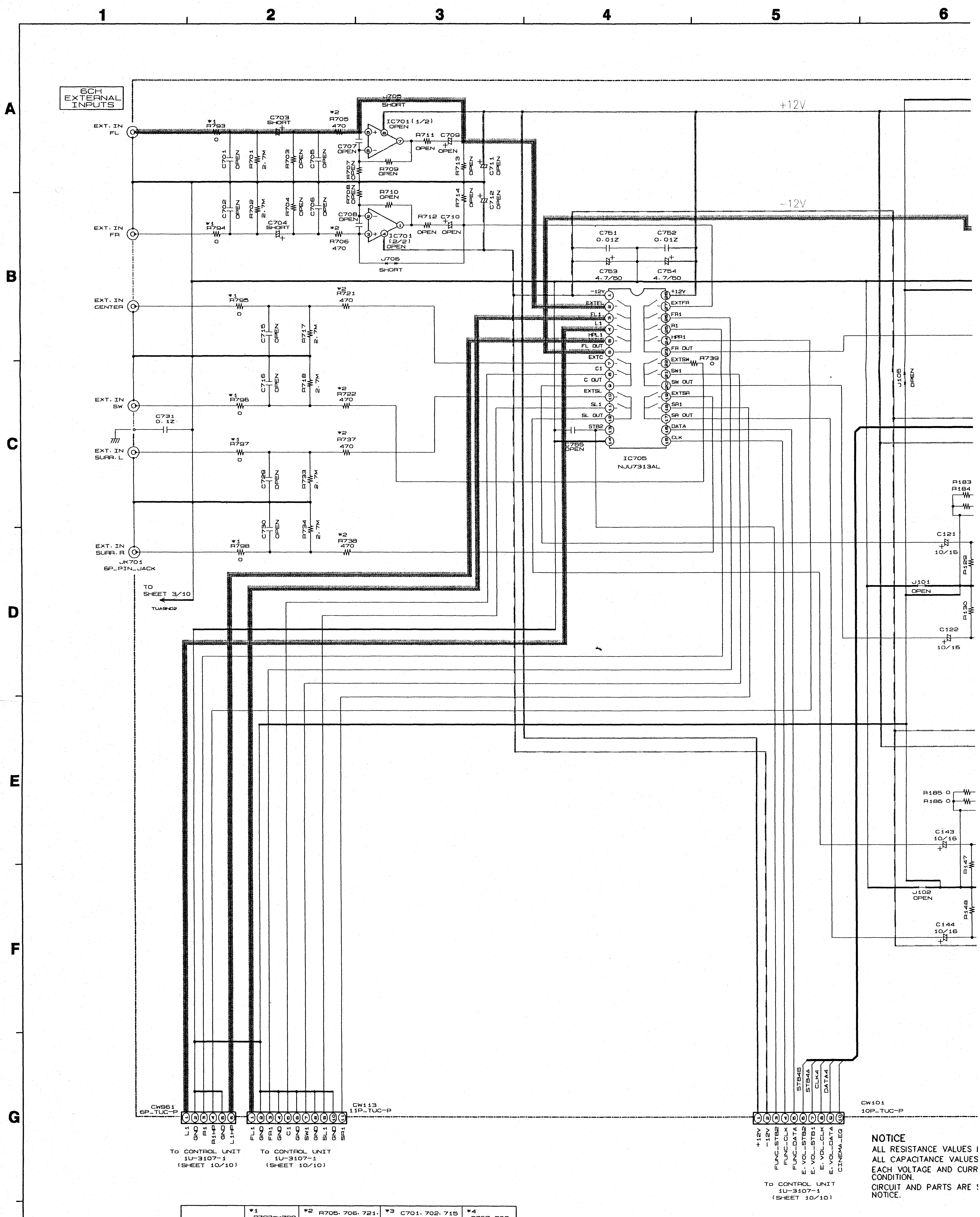
DO NOT return the unit to the customer unit the problem is located and corrected.


+12V
R550 5.6K
R549 100K
R551 10K
TR508 DTC144EK
C543 OPEN
CF503 CSB456F11
C529 1/50
R543 3.3K
C530 0.22/50
C532 CK0.01
C531 1/50
R548 10K
C533 CF0.047J
IC503 LA3401
C534 CF0.056J
VR502 100K
R546 62K
C542 OPEN
*20 R579 0
C538 22/16
*9 C539 750P(J)
*9 C540 750P(J)
R547 100K
C541 2.2/50
*16 C537 OPEN
*8 R544 100K
*8 R545 100K
*17 LF501 OPEN
*10 R575 120K
*10 R576 120K
R553 3.3K
*18 LF503 OPEN
C545 10/16
*24 R580 0
DTC323TK TR509
*12 R555 5.6K
TR510 DTC323TK
R554 3.3K
*18 LF504 OPEN
*12 R556 5.6K
C546 10/16
*24 R581 0
D503 1SS270A
TR511 DTA114TK
D504 1SS270A
R577 22K
FB501 BEADS
J506 OPEN
+6V
C572 OPEN
D505 1SS270A
TO SHEET 4/10
J503 OPEN
TUAGND2
J502 SHORT
FB503 OPEN
SHORT
CW082 8P_TUC-P
GND[A1]
TU-L
GND[A1]
TAPE IN-R
GND[A1]
TAPE IN-L
CONTROL UNIT
1U-3107-1
(SHEET 10/10)
CW121 12P_TUC-P
FLPL_DATA
FLPL_CLK
FLPL_STB
ST/MONO
T.MUTE
STEREO
RDS
TUNED
+6V(D1)
GND[A2]
+12V
GND[A1]
To CONTROL UNIT
1U-3107-1
(SHEET 10/10)
+B LINE
SIGNAL LINE

*	NO	* USA	TAIWAN R.O.C.	ASIA	EUROPE	JAPAN
1	R514	100			100	100
2	R515	100			---	0
3	R516	1K			330	330
4	TR501	---			2SK211(GR)	---
5	R517	---			330	---
6	R502	---			0	---
7	R536	0			2.7K	0
8	R544.545	100K			150k	130K
9	C539.540	750p	510p		330P	390p
10	R575.576	120K			200k	160K
11	C536	100p			---	100p
12	R555.556	5.6k			3.3K	3.3K
13	C527	1/50	0.33/50		0.33/50	0.33/50
14	CF502	SFE 10.7MS2G			SFT 10.7MS2	SFE 10.7MS2G
15	CF501	SFE 10.7MA8			SFT 10.7MS2	SFE 10.7MA8
16	C537	---			22/16	---
17	LF501	---			ANTI BIRDIE FILTER	---
18	LF503.504	---			LPF 2320085004	LPF 2320085004
19	IC501	F/E 2160102008			F/E 2169013004	F/E 2169012005
20	R579	0			---	0
21	R535	18K	39K		39K	18K
22	R520	1K			1K	---
23	C519	---			CK100p	---
24	R580.581	0			---	---
25	D501	1SS270A			1SS270A	---
26	R501	10			10	---
27	TR503	DTA114EK			DTA114EK	---
28	R578	0			0	---
29	R645	---			10K	---
30	R646	---			5.6K	---
31	C554.565	---		330P	330P	---
32	C518	---			270P	---
33	C547	---			---	100P
34	S501	---		SW	---	---

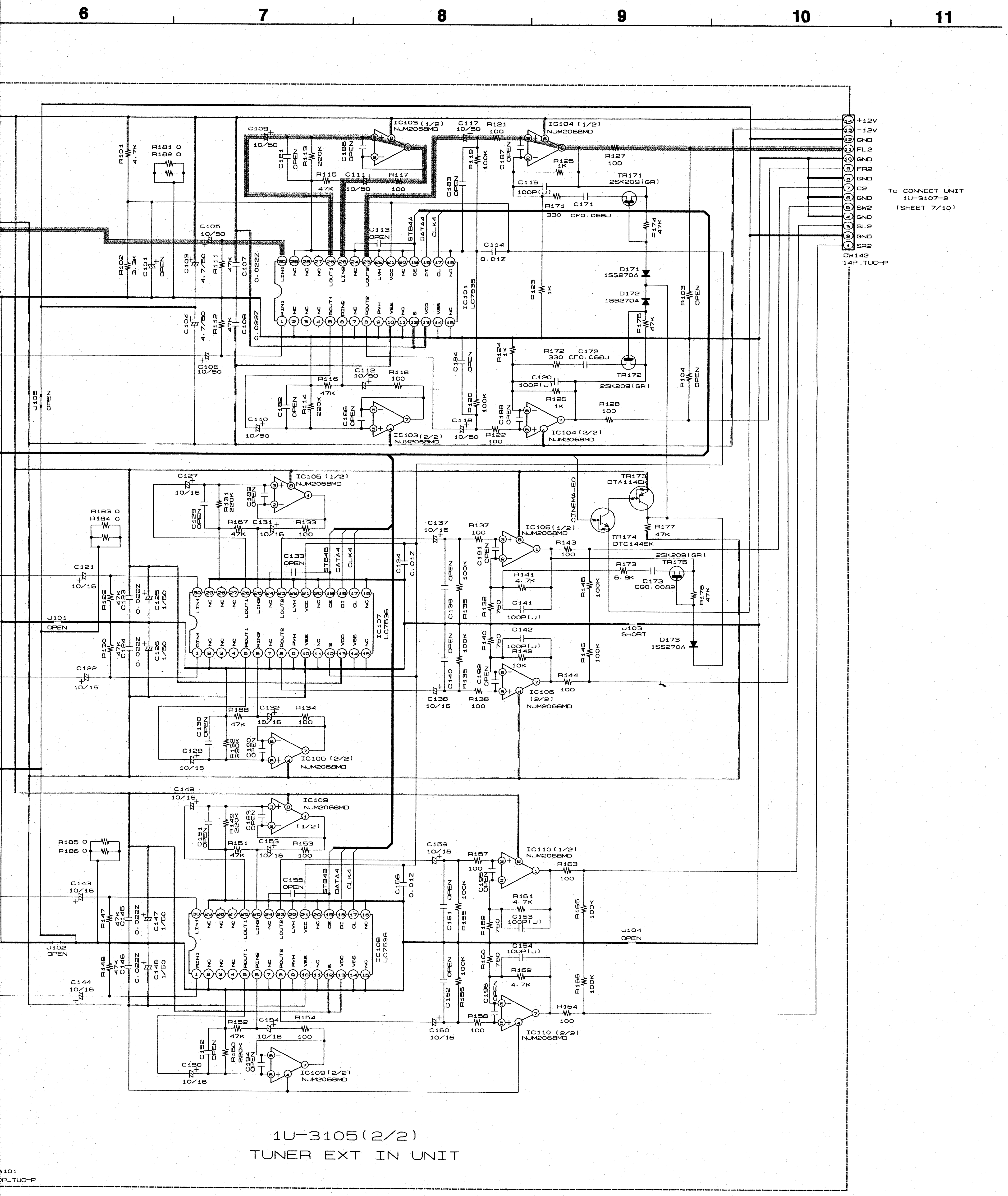
SCHEMATIC DIAGRAM (3/10)

SCHEMATIC DIAGRAM (4/10)


1
2
3
4
5
6
A
B
C
D
E
F
G
H
6CH EXTERNAL INPUTS
EXT. IN FL
EXT. IN FR
EXT. IN CENTER
EXT. IN SW
EXT. IN SURR. L
EXT. IN SURR. R
JK701
6P_PIN_JACK
TO SHEET 3/10
TUAGND2
C731 0.1Z
*1 R793 0
*1 R794 0
*1 R795 0
*1 R796 0
*1 R797 0
*1 R798 0
C701 OPEN
C702 OPEN
R701 2.7M
R702 2.7M
C703 SHORT
C704 SHORT
R703 OPEN
R704 OPEN
C705 OPEN
C706 OPEN
*2 R705 470
*2 R706 470
C707 OPEN
C708 OPEN
R707 OPEN
R708 OPEN
R709 OPEN
R710 OPEN
IC701 (1/2) OPEN
IC701 (2/2) OPEN
R711 OPEN
R712 OPEN
C709 OPEN
C710 OPEN
R713 OPEN
R714 OPEN
C711 OPEN
C712 OPEN
J705 SHORT
J706 SHORT
C715 OPEN
C716 OPEN
R717 2.7M
R718 2.7M
*2 R721 470
*2 R722 470
C729 OPEN
C730 OPEN
R733 2.7M
R734 2.7M
*2 R737 470
*2 R738 470
+12V
-12V
C751 0.01Z
C752 0.01Z
C753 4.7/50
C754 4.7/50
-12V
EXTFL
FL1
L1
HPL1
FL OUT
EXTC
C1
C OUT
EXTSL
SL1
SL OUT
STB2
+12V
EXTFR
FR1
R1
HPR1
FR OUT
EXTSW
R739 0
SW1
SW OUT
EXTSR
SR1
SR OUT
DATA
CLK
C755 OPEN
IC705
NJU7313AL
J105 OPEN
R183
R184
C121 10/16
R129
J101 OPEN
R130
C122 10/16
R185 0
R186 0
C143 10/16
R147
J102 OPEN
R148
C144 10/16
CW961
6P_TUC-P
L1
GND
R1
R1HP
GND
L1HP
To CONTROL UNIT
1U-3107-1
(SHEET 10/10)
CW113
11P_TUC-P
FL1
GND
FR1
GND
C1
GND
SW1
GND
SL1
GND
SR1
To CONTROL UNIT
1U-3107-1
(SHEET 10/10)
STB4B
STB4A
CLK4
DATA4
CW101
10P_TUC-P
+12V
-12V
FUNC_STB2
FUNC_CLK
FUNC_DATA
E. VOL_STB2
E. VOL_STB1
E. VOL_CLK
E. VOL_DATA
CINEMA_EQ
To CONTROL UNIT
1U-3107-1
(SHEET 10/10)

NOTICE
ALL RESISTANCE VALUES I
ALL CAPACITANCE VALUES
EACH VOLTAGE AND CURR
CONDITION.
CIRCUIT AND PARTS ARE S
NOTICE.

	*1 R793~798	*2 R705, 706, 721, 722, 737, 738	*3 C701, 702, 715, 716, 729, 730	*4 C707, 708
USA TAIWAN R. O. C JAPAN	0	470	---	---
ASIA EUROPE	470	100	330P	100P


6
7
8
9
10
11
1U-3105(2/2)
TUNER EXT IN UNIT
IC101 LC7536
IC107 LC7536
IC108 LC7536
IC103 (1/2) NJM2068MD
IC103 (2/2) NJM2068MD
IC104 (1/2) NJM2068MD
IC104 (2/2) NJM2068MD
IC105 (1/2) NJM2068MD
IC105 (2/2) NJM2068MD
IC106 (1/2) NJM2068MD
IC106 (2/2) NJM2068MD
IC109 NJM2068MD (1/2)
IC109 (2/2) NJM2068MD
IC110 (1/2) NJM2068MD
IC110 (2/2) NJM2068MD
TR171 2SK209(GR)
TR172 2SK209(GR)
TR173 DTA114EK
TR174 DTC144EK
TR175 2SK209(GR)
D171 1SS270A
D172 1SS270A
D173 1SS270A
CINEMA_EQ
STB4A
STB4B
DATA4
CLK4
J101 OPEN
J102 OPEN
J103 SHORT
J104 OPEN
J105 OPEN
+12V
-12V
GND
FL2
GND
FR2
GND
C2
GND
SW2
GND
SL2
GND
SR2
CW142
14P_TUC-P
To CONNECT UNIT
1U-3107-2
(SHEET 7/10)
N101
P_TUC-P

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

WARNING:

Parts marked with this symbol ⚠ ▨ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:

DO NOT return the unit to the customer unit the problem is located and corrected.

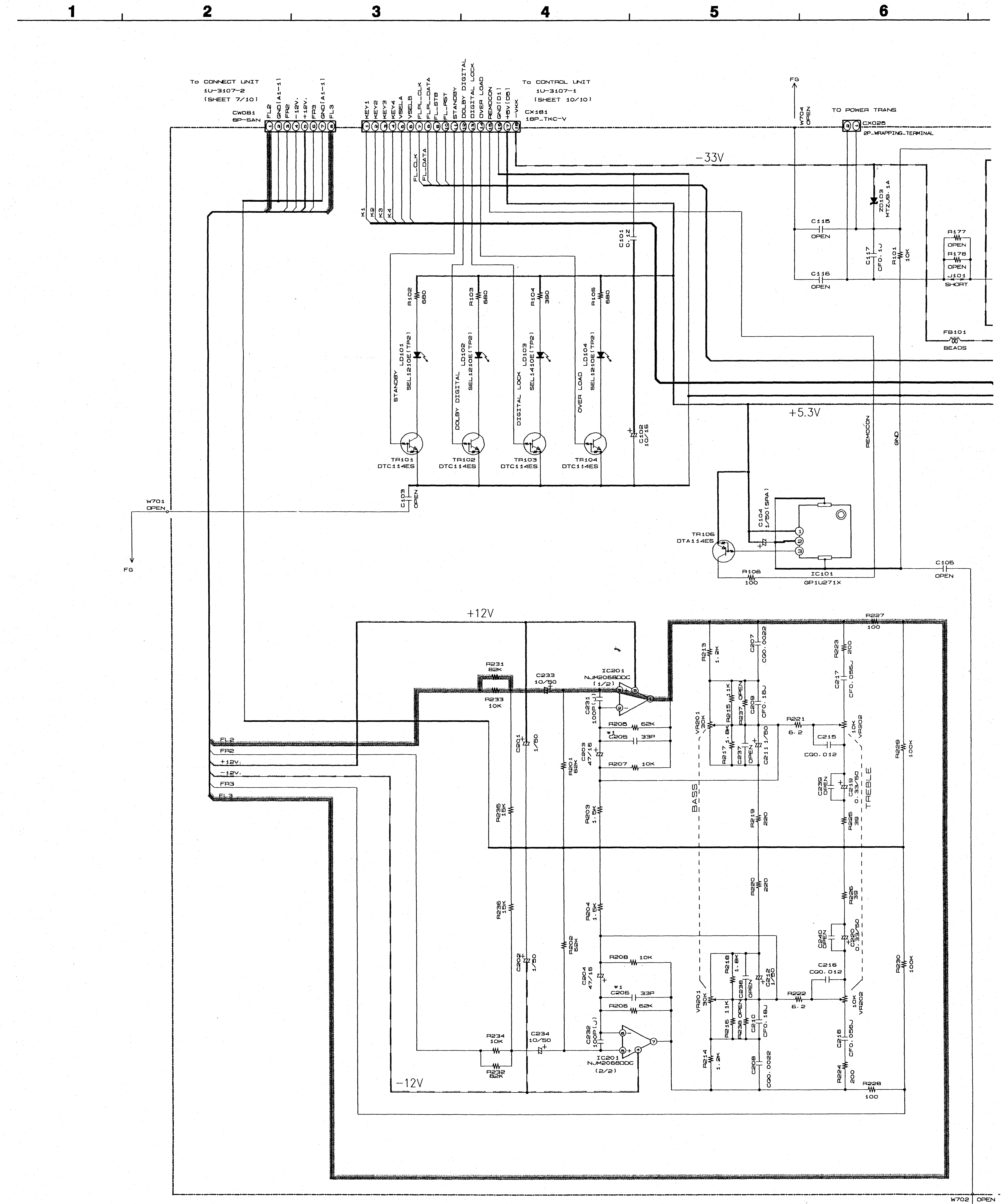
+B LINE

-B LINE

▨ SIGNAL LINE

SCHEMATIC DIAGRAM (4/10)

SCHEMATIC DIAGRAM (5/10)


1
2
3
4
5
6
To CONNECT UNIT
1U-3107-2
(SHEET 7/10)
CW081
8P-SAN
FL2
GND[A1-1]
FR2
-12V.
+12V.
FR3
GND[A1-1]
FL3
KEY1
KEY2
KEY3
KEY4
VSELA
VSELB
FLPL_CLK
FLPL_DATA
FL_STB
FL_RST
STANDBY
DOLBY DIGITAL
DIGITAL LOCK
OVER LOAD
REMOCON
GND[D1]
+5V[D5]
-VKK
To CONTROL UNIT
1U-3107-1
(SHEET 10/10)
CX181
18P_TKC-V
FG
W704
OPEN
TO POWER TRANS
CX025
2P_WRAPPING_TERMINAL
-33V
K1
K2
K3
K4
FL_CLK
FL_DATA
ZD103
MTZJ9.1A
C101
0.1Z
C115
OPEN
C116
OPEN
C117
CF0.1J
R101
10K
R177
OPEN
R178
OPEN
J101
SHORT
FB101
BEADS
R102
680
R103
680
R104
390
R105
680
STANDBY
LD101
SEL1210E(TP2)
DOLBY DIGITAL
LD102
SEL1210E(TP2)
DIGITAL LOCK
LD103
SEL1410E(TP2)
OVER LOAD
LD104
SEL1210E(TP2)
C102
10/16
+5.3V
REMOCON
GND
TR101
DTC114ES
TR102
DTC114ES
TR103
DTC114ES
TR104
DTC114ES
W701
OPEN
FG
C103
OPEN
C104
1/50(SRA)
TR106
DTA114ES
R106
100
IC101
GP1U271X
C105
OPEN
+12V
R231
82K
R233
10K
C233
10/50
IC201
NJM2068DDC
(1/2)
C231
100P(J)
R205
62K
*1
C205
33P
R207
10K
C201
1/50
R201
62K
C203
47/16
R235
15K
R203
1.5K
FL2
FR2
+12V.
-12V.
FR3
FL3
R213
1.2K
C207
CQ0.0022
R217 1.8K
R215 11K
C237
OPEN
R237
OPEN
C209
CF0.18J
C211 1/50
VR201
30K
R221
6.2
C215
CQ0.012
R223
200
C217
CF0.056J
VR202
10K
C239
OPEN
C219
0.33/50
R225
39
TREBLE
BASS
R219
220
R227
100
R229
100K
R220
220
R226
39
R236
15K
R204
1.5K
R202
62K
C202
1/50
R208
10K
C204
47/16
*1
C206
33P
R206
62K
C232
100P(J)
IC201
NJM2068DDC
(2/2)
R234
10K
R232
82K
C234
10/50
-12V
R218
1.8K
C238
OPEN
C212
1/50
R216 11K
R238 OPEN
C210
CF0.18J
R214
1.2K
C208
CQ0.0022
VR201
30K
R222
6.2
C216
CQ0.012
C240
OPEN
C220
0.33/50
C218
CF0.056J
R224
200
VR202
10K
R230
100K
R228
100
W702
OPEN
FG

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
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WARNING:

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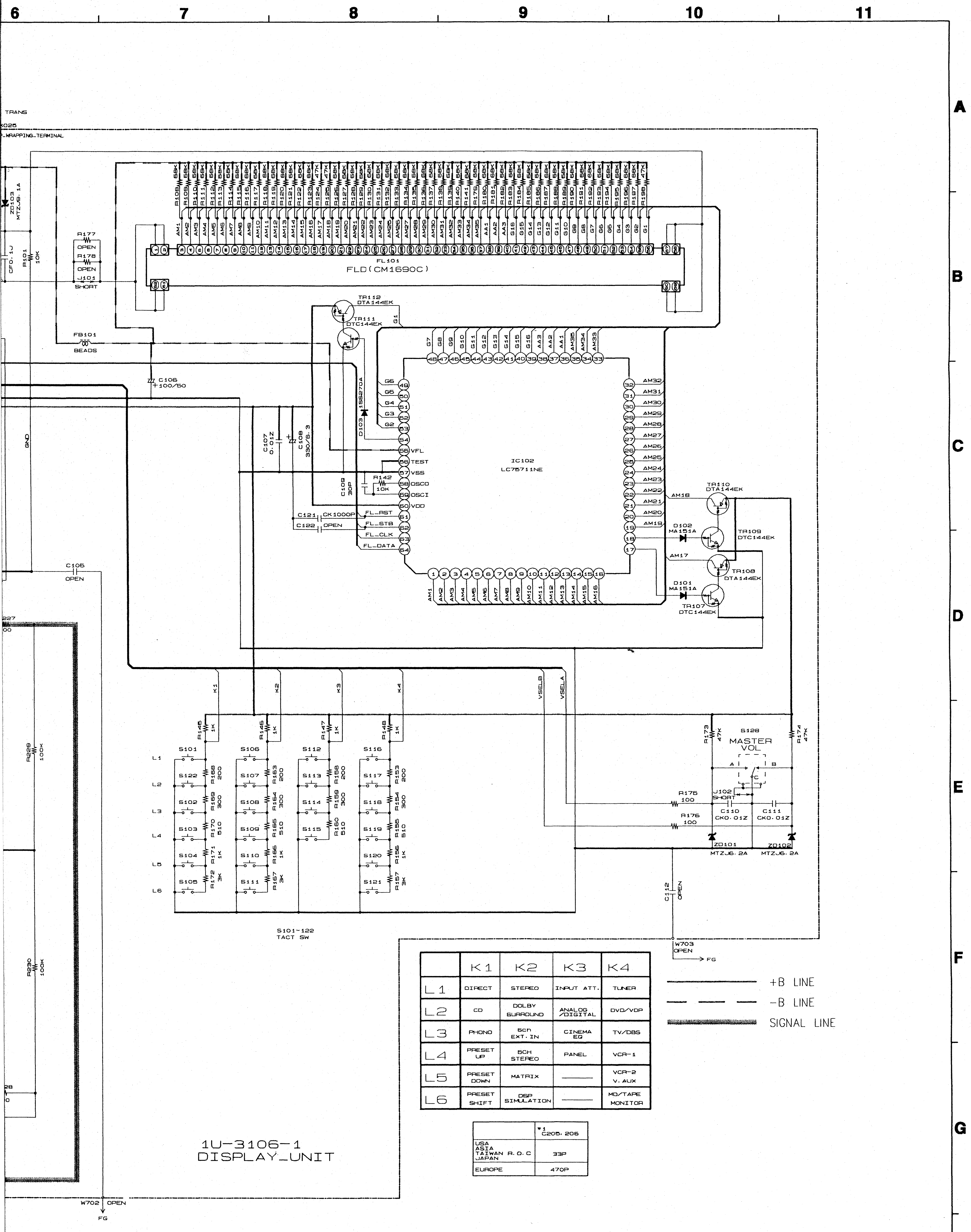
CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:

DO NOT return the unit to the customer unit the problem is located and corrected.

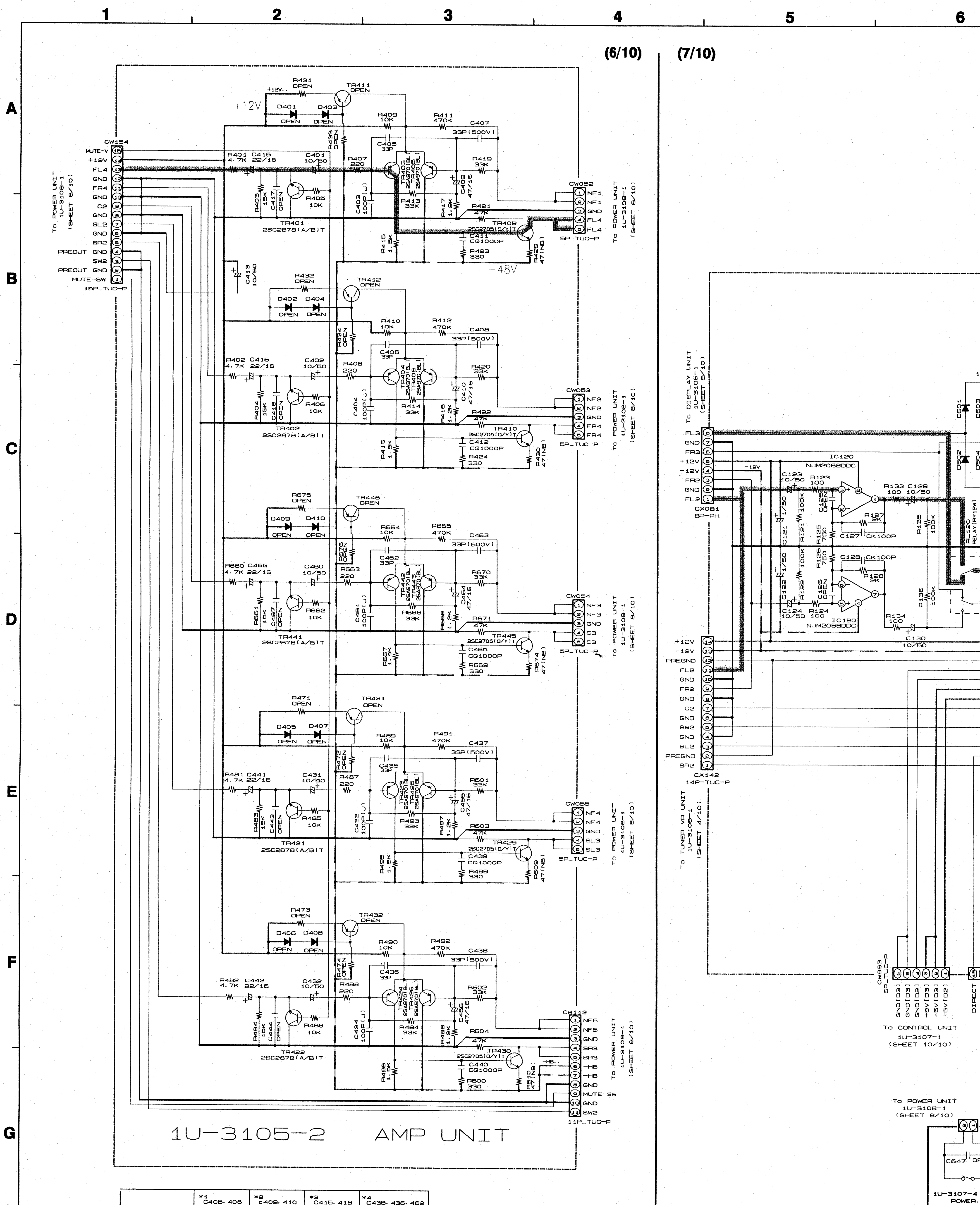

6
7
8
9
10
11
A
B
C
D
E
F
G
H
TRANS
K025
WRAPPING_TERMINAL
ZD103
MTZJ6.1A
CF0.1J
R101
10K
R177
OPEN
R178
OPEN
J101
SHORT
FB101
BEADS
C106
100/50
GND
C105
OPEN
R227
R228
R229
100K
R230
100K
FL101
FLD(CM1690C)
R108–R198
68K
47K
AM1–AM35
AA1
AA2
AA3
G1–G16
TR112
DTA144EK
TR111
DTC144EK
D103
1SS270A
C107
0.01Z
C108
330/6.3
C109
30P
R142
10K
C121
CK1000P
C122
OPEN
FL_RST
FL_STB
FL_CLK
FL_DATA
VFL
TEST
VSS
OSCO
OSCI
VDD
IC102
LC75711NE
TR110
DTA144EK
D102
MA151A
TR109
DTC144EK
TR108
DTA144EK
D101
MA151A
TR107
DTC144EK
K1
K2
K3
K4
VSELB
VSELA
R145
R146
R147
R148
1K
S101–S122
R153–R172
200
300
510
1K
3K
L1
L2
L3
L4
L5
L6
S101-122
TACT SW
R173
47K
R174
47K
S128
MASTER
VOL
A
B
C
J102
SHORT
R175
100
R176
100
C110
CK0.01Z
C111
CK0.01Z
ZD101
MTZJ6.2A
ZD102
MTZJ6.2A
C112
OPEN
W703
OPEN
FG
W702
OPEN
FG
+B LINE
-B LINE
SIGNAL LINE
1U-3106-1
DISPLAY_UNIT

	K1	K2	K3	K4
L1	DIRECT	STEREO	INPUT ATT.	TUNER
L2	CD	DOLBY SURROUND	ANALOG /DIGITAL	DVD/VDP
L3	PHONO	6ch EXT. IN	CINEMA EQ	TV/DBS
L4	PRESET UP	6CH STEREO	PANEL	VCR-1
L5	PRESET DOWN	MATRIX	———	VCR-2 V. AUX
L6	PRESET SHIFT	DSP SIMULATION	———	MD/TAPE MONITOR

	*1 C205, 206
USA ASIA TAIWAN R.O.C JAPAN	33P
EUROPE	470P

SCHEMATIC DIAGRAM (5/10)

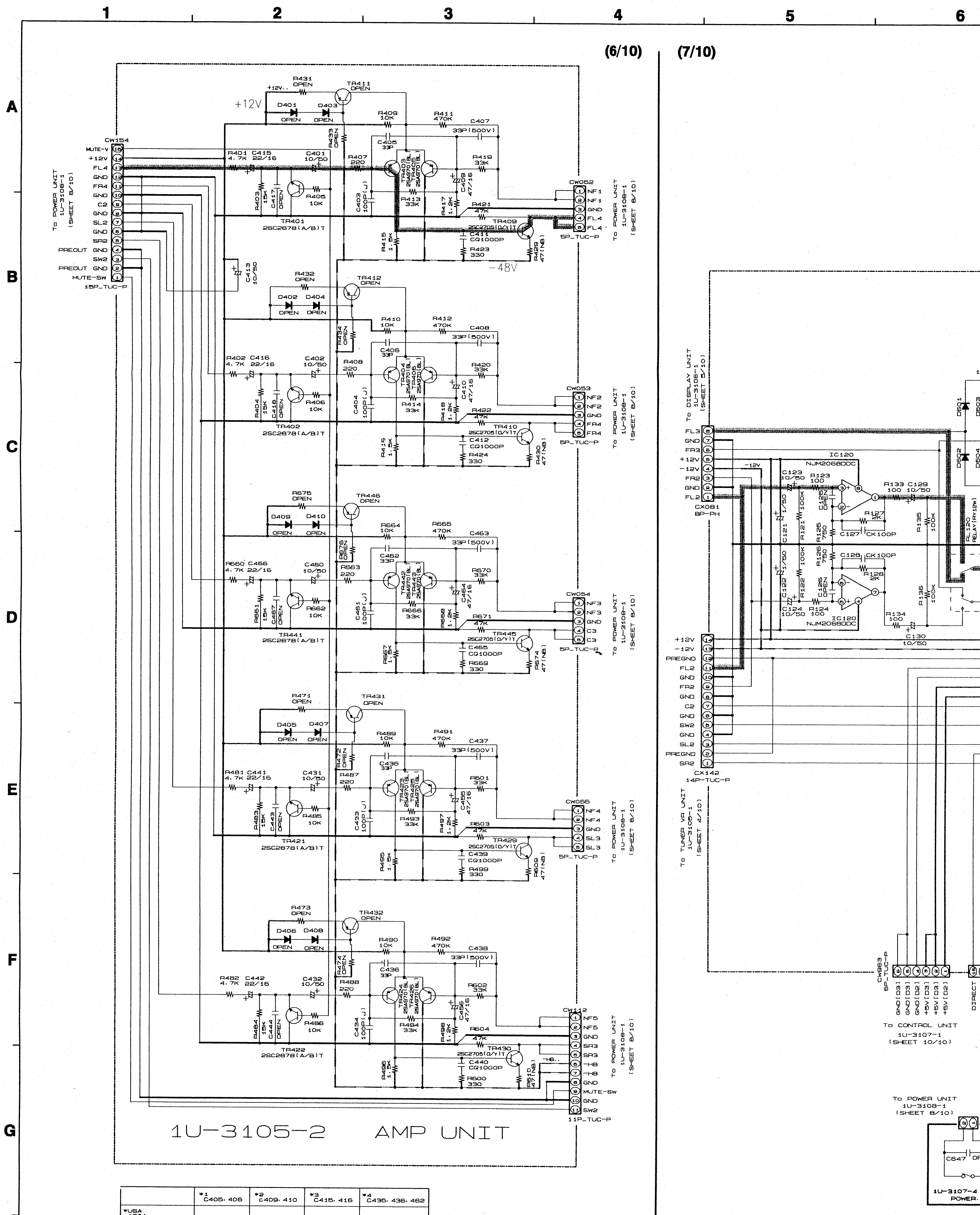
SCHEMATIC DIAGRAM (6/10)(7/10)


1
2
3
4
5
6
A
B
C
D
E
F
G
(6/10)
(7/10)
To POWER UNIT 1U-3108-1 (SHEET 8/10)
CW154
MUTE-V
+12V
FL4
GND
FR4
GND
C2
GND
SL2
GND
SR2
PREOUT GND
SW2
PREOUT GND
MUTE-SW
15P_TUC-P
+12V
-48V
R431 OPEN
TR411 OPEN
D401
D403
OPEN
R409 10K
R411 470K
C407 33P(500V)
R401 4.7K
C415 22/16
C401 10/50
R407 220
C405 33P
TR403 2SA970(BL)
TR405 2SA970(BL)
R419 33K
C409 47/16
R403 15K
C417 OPEN
R405 10K
C403 100P(J)
R413 33K
R417 1.2K
R421 47K
TR401 2SC2878(A/B)T
TR409 2SC2705(O/Y)T
C411 CQ1000P
R423 330
R415 1.5K
R429 47(NB)
CW052
NF1
GND
FL4
5P_TUC-P
C413 10/50
R432 OPEN
TR412 OPEN
D402
D404
R410 10K
R412 470K
C408 33P(500V)
R402 4.7K
C416 22/16
C402 10/50
R408 220
C406 33P
TR404 2SA970(BL)
TR406 2SA970(BL)
R420 33K
C410 47/16
R404 15K
C418 OPEN
R406 10K
C404 100P(J)
R414 33K
R418 1.2K
R422 47K
TR402 2SC2878(A/B)T
TR410 2SC2705(O/Y)T
C412 CQ1000P
R424 330
R430 47(NB)
CW053
NF2
FR4
R676 OPEN
TR446 OPEN
D409
D410
R664 10K
R665 470K
C463 33P(500V)
R660 4.7K
C466 22/16
C450 10/50
R663 220
C452 33P
TR442 2SA970(BL)
TR443 2SA970(BL)
R670 33K
C464 47/16
R651 15K
C467 OPEN
R662 10K
C461 100P(J)
R666 33K
R668 1.2K
R671 47K
TR441 2SC2878(A/B)T
TR445 2SC2705(O/Y)T
C465 CQ1000P
R669 330
R667 1.5K
R674 47(NB)
CW054
NF3
C3
R471 OPEN
TR431 OPEN
D405
D407
R489 10K
R491 470K
C437 33P(500V)
R481 4.7K
C441 22/16
C431 10/50
R487 220
C435 33P
TR423 2SA970(BL)
TR425 2SA970(BL)
R501 33K
C455 47/16
R483 15K
C443 OPEN
R485 10K
C433 100P(J)
R493 33K
R497 1.2K
R503 47K
TR421 2SC2878(A/B)T
TR429 2SC2705(O/Y)T
C439 CQ1000P
R499 330
R495 1.5K
R609 47(NB)
CW055
NF4
SL3
R473 OPEN
TR432 OPEN
D406
D408
R490 10K
R492 470K
C438 33P(500V)
R482 4.7K
C442 22/16
C432 10/50
R488 220
C436 33P
TR424 2SA970(BL)
TR426 2SA970(BL)
R502 33K
C456 47/16
R484 15K
C444 OPEN
R486 10K
C434 100P(J)
R494 33K
R498 1.2K
R604 47K
TR422 2SC2878(A/B)T
TR430 2SC2705(O/Y)T
C440 CQ1000P
R600 330
R496 1.5K
R610 47(NB)
CW112
NF5
SR3
-HB
MUTE-SW
SW2
11P_TUC-P
1U-3105-2 AMP UNIT
To DISPLAY UNIT 1U-3106-1 (SHEET 5/10)
CX081
8P-PH
FL3
FR3
+12V
-12V
FR2
FL2
IC120
NJM2068DDC
C123 10/50
R123 100
C121 1/50
R121 100K
R125 750
C125 OPEN
R127 2K
C127 CK100P
C122 1/50
R122 100K
R126 750
C126 OPEN
C128 CK100P
R128 2K
C124 10/50
R124 100
R133 100
C129 10/50
R134 100
C130 10/50
R135 100K
R136 100K
RL120 RELAY(RY12W)
D501
D502
D503
D504
To TUNER VR UNIT 1U-3105-1 (SHEET 4/10)
CX142
14P-TUC-P
PREGND
SL2
C2
SR2
CW963
8P_TUC-P
GND(D3)
GND(D2)
+5V(D3)
+5V(D2)
DIRECT
To CONTROL UNIT 1U-3107-1 (SHEET 10/10)
To POWER UNIT 1U-3108-1 (SHEET 8/10)
C547
1U-3107-4 POWER
H

	*1 C405, 406	*2 C409, 410	*3 C415, 416	*4 C435, 436, 462
*USA ASIA TAIWAN R.O.C. JAPAN	33P	47/16	22/16	33P
EUROPE	220P	100/16	47/16	220P

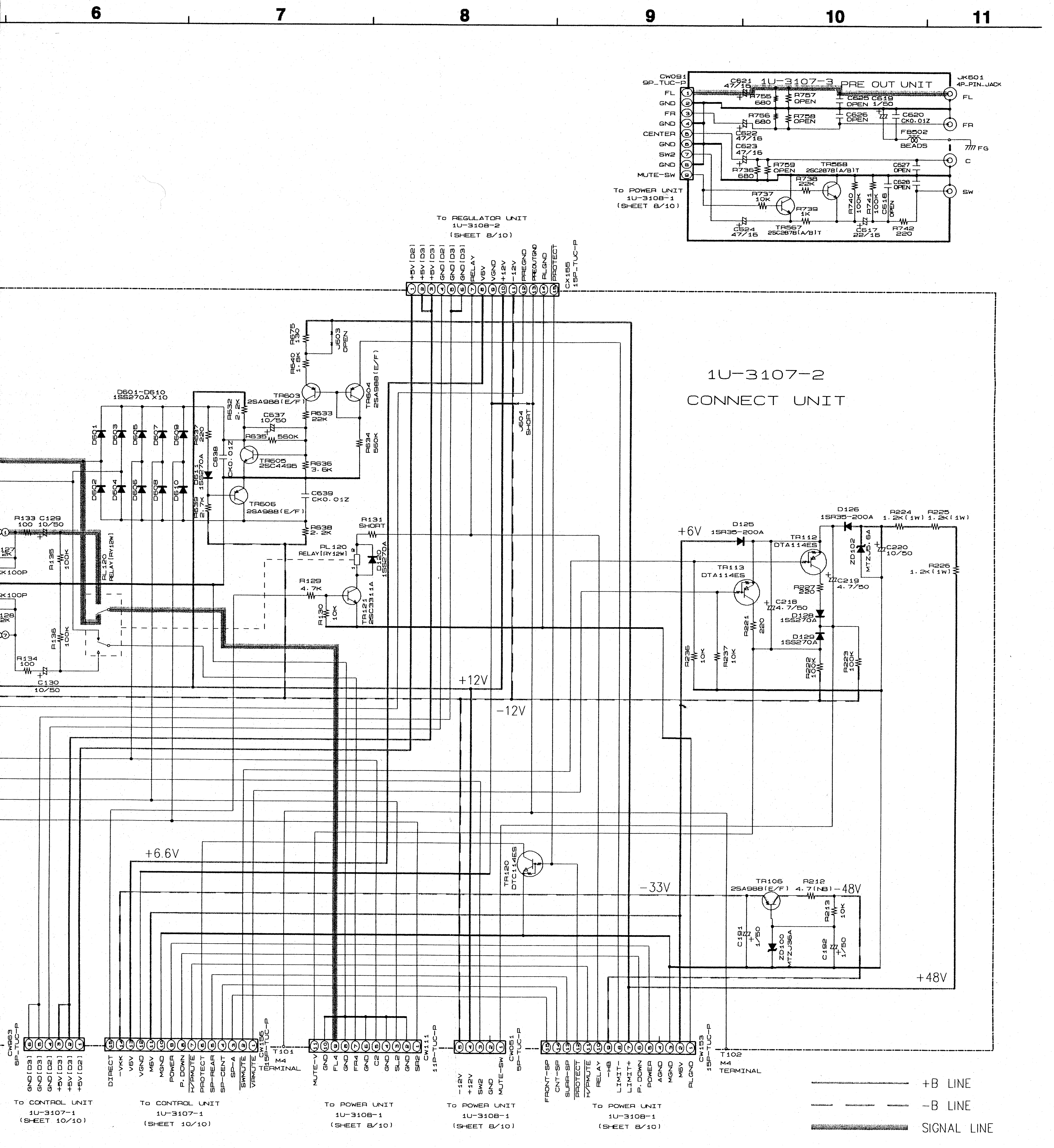
(6/10) (7/10)

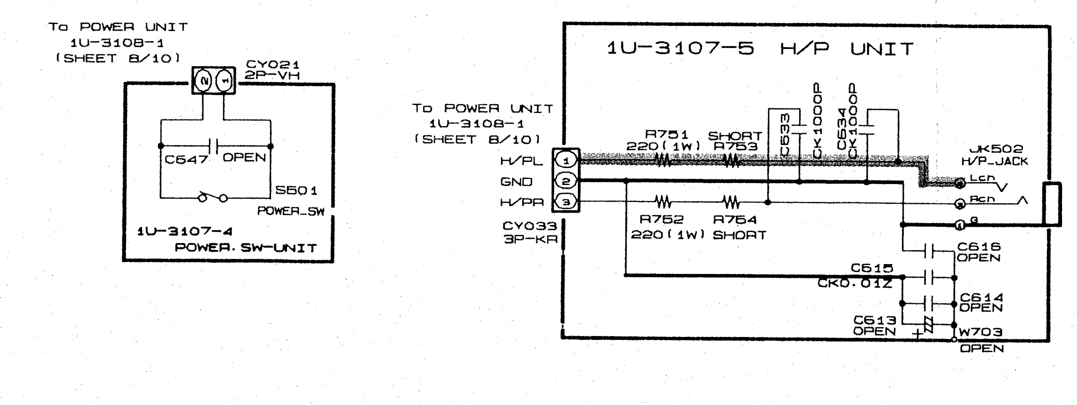
SCHEMATIC DIAGRAM (6/10)(7/10)


1
2
3
4
5
6
A
B
C
D
E
F
G
(6/10)
(7/10)
1U-3105-2 AMP UNIT
CW154
15P_TUC-P
MUTE-V
+12V
FL4
GND
FR4
GND
C2
GND
SL2
GND
SR2
PREOUT GND
SW2
PREOUT GND
MUTE-SW
To POWER UNIT 1U-3108-1 (SHEET 8/10)
CW052
NF1
NF1
GND
FL4
FL4
5P_TUC-P
CW053
NF2
NF2
GND
FR4
FR4
CW054
NF3
NF3
GND
C3
C3
CW055
NF4
NF4
GND
SL3
SL3
CW112
NF5
NF5
GND
SR3
SR3
-HB
-HB
GND
MUTE-SW
GND
SW2
11P_TUC-P
+12V
-48V
TR401 2SC2878(A/B)T
TR402 2SC2878(A/B)T
TR441 2SC2878(A/B)T
TR421 2SC2878(A/B)T
TR422 2SC2878(A/B)T
TR403 2SA970(BL)
TR405 2SA970(BL)
TR409 2SC2705(O/Y)T
TR410 2SC2705(O/Y)T
TR445 2SC2705(O/Y)T
TR429 2SC2705(O/Y)T
TR430 2SC2705(O/Y)T
TR411 OPEN
TR412 OPEN
TR446 OPEN
TR431 OPEN
TR432 OPEN
To DISPLAY UNIT 1U-3106-1 (SHEET 5/10)
CX081
8P-PH
FL3
GND
FR3
+12V
-12V
FR2
GND
FL2
IC120 NJM2068DDC
RL120 RELAY(RY12W)
D501
D502
D503
D504
To TUNER VR UNIT 1U-3105-1 (SHEET 4/10)
CX142
14P-TUC-P
+12V
-12V
PREGND
FL2
GND
FR2
GND
C2
GND
SW2
GND
SL2
PREGND
SR2
CW963
6P_TUC-P
GND(D3)
GND(D3)
GND(D2)
+5V(D3)
+5V(D3)
+5V(D2)
DIRECT
To CONTROL UNIT 1U-3107-1 (SHEET 10/10)
To POWER UNIT 1U-3108-1 (SHEET 8/10)
C647
1U-3107-4 POWER

	*1 C405, 406	*2 C409, 410	*3 C415, 416	*4 C435, 436, 462
*USA ASIA TAIWAN R.O.C. JAPAN	33P	47/16	22/16	33P
EUROPE	220P	100/16	47/16	220P

H
(6/10)
(7/10)


6
7
8
9
10
11
1U-3107-3 PRE OUT UNIT
CW091 9P_TUC-P
JK501 4P_PIN_JACK
FL
GND
FR
GND
CENTER
GND
SW2
GND
MUTE-SW
To POWER UNIT 1U-3108-1 (SHEET 8/10)
To REGULATOR UNIT 1U-3108-2 (SHEET 8/10)
CX155 15P_TUC-P
+5V(D2)
+5V(D3)
+5V(D3)
GND(D2)
GND(D3)
GND(D3)
RELAY
V6V
VGND
+12V
-12V
PREGND
PREOUTGND
RLGND
PROTECT
1U-3107-2
CONNECT UNIT
D601-D610 1SS270A X10
RL120 RELAY(RY12W)
TR603 2SA988(E/F)
TR604 2SA988(E/F)
TR605 2SC4495
TR606 2SA988(E/F)
TR121 2SC3311A
TR112 DTA114ES
TR113 DTA114ES
TR120 DTC114ES
TR106 2SA988(E/F)
ZD100 MTZJ36A
ZD102 MTZJ5.6A
D125 1SR35-200A
D126 1SR35-200A
J503 OPEN
J504 SHORT
+6V
+12V
-12V
+6.6V
-33V
-48V
+48V
CW963 6P_TUC-P
GND(D3)
GND(D3)
GND(D2)
+5V(D3)
+5V(D3)
+5V(D2)
To CONTROL UNIT 1U-3107-1 (SHEET 10/10)
CW155 15P_TUC-P
DIRECT
-VKK
V6V
VGND
M6V
MGND
POWER
P. DOWN
H/PMUTE
PROTECT
SP-REAR
SP-CENT
SP-A
SWMUTE
VRMUTE
T101 M4 TERMINAL
CW111 11P_TUC-P
MUTE-V
GND
FL4
GND
FR4
GND
C2
GND
SL2
GND
SR2
CW051 5P_TUC-P
-12V
+12V
SW2
GND
MUTE-SW
CW153 15P_TUC-P
FRONT-SP
CNT-SP
SURR-SP
PROTECT
H/PMUTE
RELAY
-HB
LIMIT-
LIMIT+
P. DOWN
POWER
AGND
MGND
M6V
RLGND
T102 M4 TERMINAL
+B LINE
-B LINE
SIGNAL LINE


To POWER UNIT 1U-3108-1 (SHEET 8/10)
CY021 2P-VH
C647 OPEN
S501 POWER_SW
1U-3107-4 POWER. SW-UNIT
1U-3107-5 H/P UNIT
To POWER UNIT 1U-3108-1 (SHEET 8/10)
H/PL
GND
H/PR
CY033 3P-KR
R751 220(1W) SHORT R753
R752 220(1W) R754 SHORT
C633 CK1000P
C634 CK1000P
JK502 H/P_JACK
C616 OPEN
C615 CK0.01Z
C614 OPEN
C613 OPEN
W703 OPEN

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
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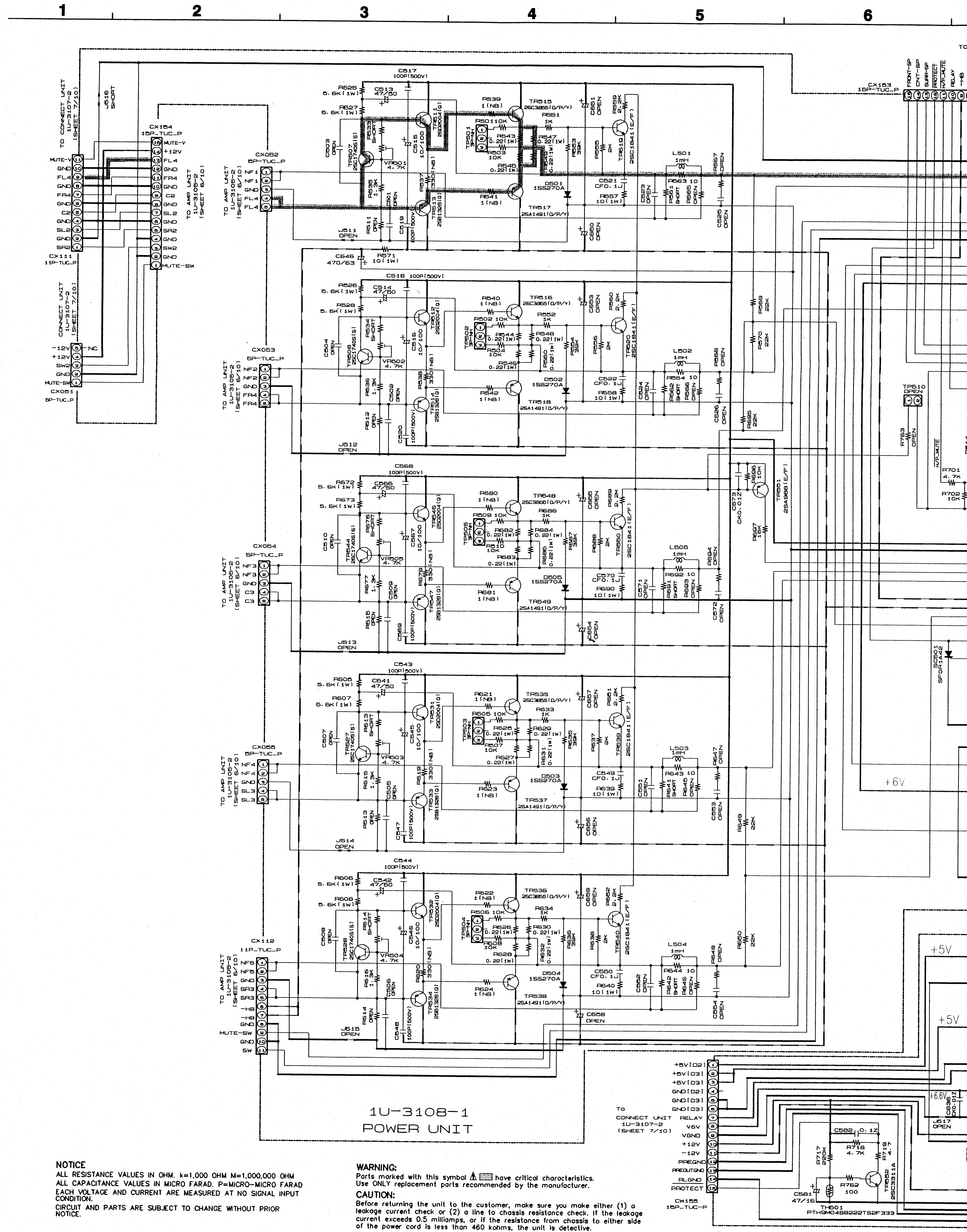
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer unit the problem is located and corrected.

SCHEMATIC DIAGRAM (6/10)(7/10)

SCHEMATIC DIAGRAM (8/10)


1
2
3
4
5
6
TO CONNECT UNIT 1U-3107-2 (SHEET 7/10)
CX111 11P-TUC_P
MUTE-V GND FL4 GND FR4 GND C2 GND SL2 GND SR2
J516 SHORT
CX154 15P-TUC_P
MUTE-V +12V FL4 GND FR4 GND C2 SL2 GND SR2 GND SW2 GND MUTE-SW
TO AMP UNIT 1U-3105-2 (SHEET 6/10)
CONNECT UNIT 1U-3107-2 (SHEET 7/10)
CX051 5P-TUC_P
-12V +12V SW2 GND MUTE-SW NC
CX052 5P-TUC_P NF1 NF1 GND FL4 FL4
CX053 5P-TUC_P NF2 NF2 GND FR4 FR4
CX054 5P-TUC_P NF3 NF3 GND C3 C3
CX055 5P-TUC_P NF4 NF4 GND SL3 SL3
CX112 11P-TUC_P NF5 NF5 GND SR3 SR3 -HB -HB GND MUTE-SW GND SW
TR507 2SC1740S(S)
TR511 2SD2004(Q)
TR513 2SB1328(Q)
TR515 2SC3855(O/P/Y)
TR517 2SA1491(O/P/Y)
TR519 2SC1841(E/F)
TR508 2SC1740S(S)
TR512 2SD2004(Q)
TR514 2SB1328(Q)
TR516 2SC3855(O/P/Y)
TR518 2SA1491(O/P/Y)
TR520 2SC1841(E/F)
TR544 2SC1740S(S)
TR546 2SD2004(Q)
TR547 2SB1328(Q)
TR548 2SC3855(O/P/Y)
TR549 2SA1491(O/P/Y)
TR550 2SC1841(E/F)
TR527 2SC1740S(S)
TR531 2SD2004(Q)
TR533 2SB1328(Q)
TR535 2SC3855(O/P/Y)
TR537 2SA1491(O/P/Y)
TR539 2SC1841(E/F)
TR528 2SC1740S(S)
TR532 2SD2004(Q)
TR534 2SB1328(Q)
TR536 2SC3855(O/P/Y)
TR538 2SA1491(O/P/Y)
TR540 2SC1841(E/F)
TR551 2SA988(E/F)
TR552 2SC3311A
TP501 3P-NH
TP502 3P-NH
TP503 3P-NH
TP504 3P-NH
TP505 3P-NH
TP510 OPEN
D501 1SS270A
D502 1SS270A
D503 1SS270A
D504 1SS270A
D505 1SS270A
L501 1mH
L502 1mH
L503 1mH
L504 1mH
L505 1mH
VR501 4.7K
VR502 4.7K
VR503 4.7K
VR504 4.7K
VR505 4.7K
C517 100P(500V)
C518 100P(500V)
C568 100P(500V)
C543 100P(500V)
C544 100P(500V)
C646 470/63
R571 10(1W)
C573 CK0.01Z
R695 22K
R697 15K
R696 10K
R570 22K
R569 22K
R649 22K
R650 22K
R753 OPEN
R701 4.7K
R702 10K
H/P_MUTE
SC501 SF0R1A42
+6V
+5V
+5V
+6.6V
C636 CK0.01Z
J517 OPEN
J511 OPEN
J512 OPEN
J513 OPEN
J514 OPEN
J515 OPEN
CX153 15P-TUC_P
FRONT-SP CNT-SP SURR-SP PROTECT H/P_MUTE RELAY -HB
+5V[D2] +5V[D3] +5V[D3] GND[D2] GND[D3] GND[D3] RELAY V6V VGND +12V -12V PREGND PREOUTGND RLGND PROTECT
To CONNECT UNIT 1U-3107-2 (SHEET 7/10)
CW155 15P-TUC-P
C582 0.1Z
R717 220K
R718 4.7K
R719 4.7
R762 100
C581 47/16
TH601 PTH9M04BB222TS2F333
1U-3108-1
POWER UNIT

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

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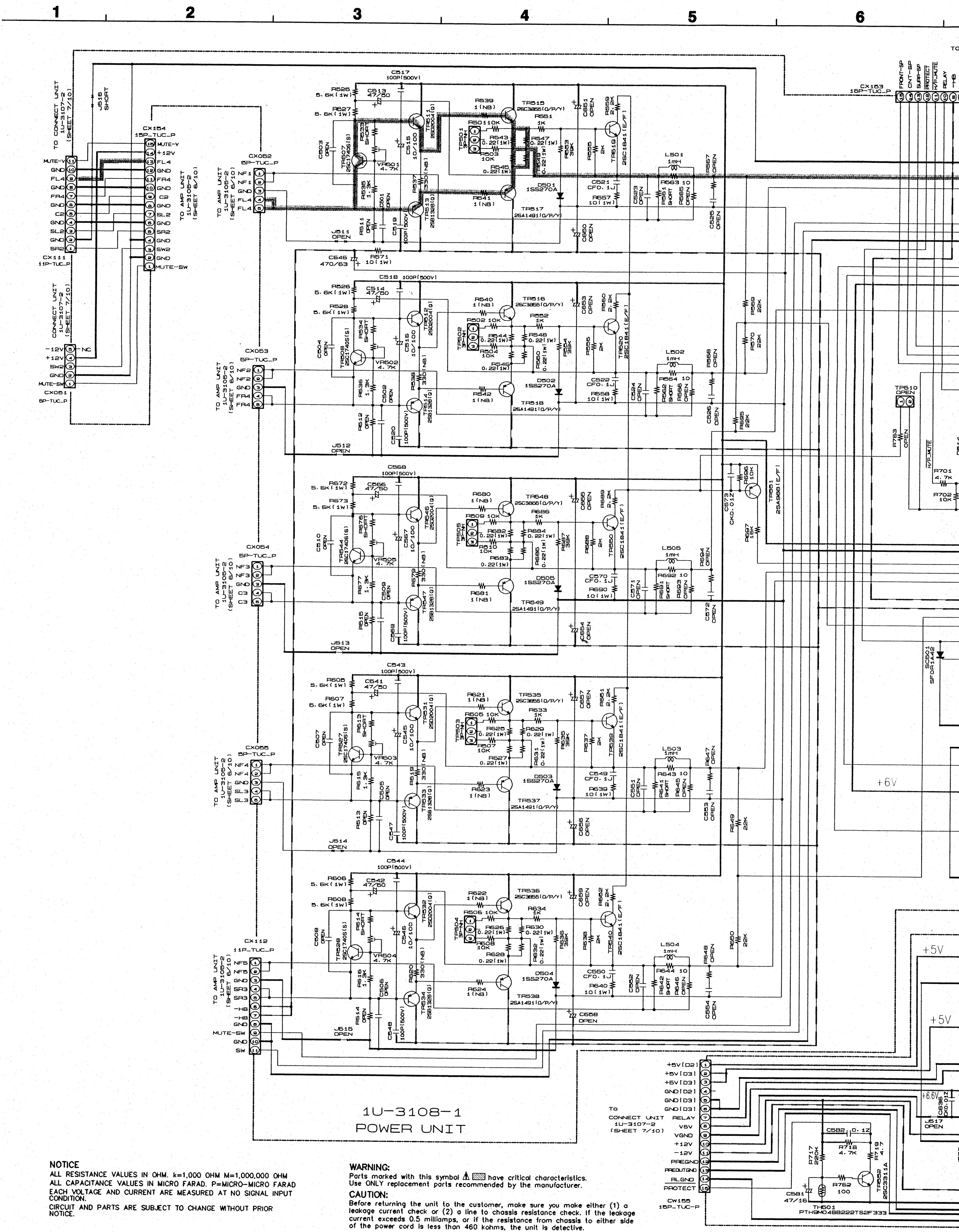
	*1 F1	*2 F8	*3
*USA TAIWAN R.O.C	6.3A/125V 2061046001	8A/125V 2061046014	2.
ASIA EUROPE		2.5A/250V 2061015032	2.
JAPAN		8A/126V 2061052008	2.

SCHEMATIC DIAGRAM (8/10)


1
2
3
4
5
6
TO CONNECT UNIT
1U-3107-2
(SHEET 7/10)
J516
SHORT
CX154
15P_TUC_P
MUTE-V
+12V
FL4
GND
FR4
C2
SL2
SR2
SW2
MUTE-SW
CX111
11P-TUC_P
TO AMP UNIT
1U-3105-2
(SHEET 6/10)
CONNECT UNIT
1U-3107-2
(SHEET 7/10)
-12V
+12V
NC
CX051
5P-TUC_P
CX052
5P-TUC_P
NF1
FL4
CX053
5P-TUC_P
NF2
FR4
CX054
5P-TUC_P
NF3
C3
CX055
5P-TUC_P
NF4
SL3
CX112
11P-TUC_P
NF5
SR3
-HB
SW
TR507
2SC1740S(S)
TR511
2SD2004(Q)
TR513
2SB1328(Q)
TR515
2SC3855(O/P/Y)
TR517
2SA1491(O/P/Y)
TR519
2SC1841(E/F)
D501
1SS270A
L501
1mH
VR501
4.7K
TP501
3P-NH
TR508
2SC1740S(S)
TR512
2SD2004(Q)
TR514
2SB1328(Q)
TR516
2SC3855(O/P/Y)
TR518
2SA1491(O/P/Y)
TR520
2SC1841(E/F)
D502
1SS270A
L502
1mH
VR502
4.7K
TP502
3P-NH
TR544
2SC1740S(S)
TR546
2SD2004(Q)
TR547
2SB1328(Q)
TR548
2SC3855(O/P/Y)
TR549
2SA1491(O/P/Y)
TR550
2SC1841(E/F)
D505
1SS270A
L505
1mH
VR505
4.7K
TP505
3P-NH
TR527
2SC1740S(S)
TR531
2SD2004(Q)
TR533
2SB1328(Q)
TR535
2SC3855(O/P/Y)
TR537
2SA1491(O/P/Y)
TR539
2SC1841(E/F)
D503
1SS270A
L503
1mH
VR503
4.7K
TP503
3P-NH
TR528
2SC1740S(S)
TR532
2SD2004(Q)
TR534
2SB1328(Q)
TR536
2SC3855(O/P/Y)
TR538
2SA1491(O/P/Y)
TR540
2SC1841(E/F)
D504
1SS270A
L504
1mH
VR504
4.7K
TP504
3P-NH
C646
470/63
R571
10(1W)
TR551
2SA988(E/F)
C573
CK0.01Z
R697
15K
R696
10K
R695
22K
R569
22K
R570
22K
R649
22K
R650
22K
CX153
15P_TUC_P
FRONT-SP
CNT-SP
SURR-SP
PROTECT
H/P_MUTE
RELAY
-HB
TP510
OPEN
R753
OPEN
R701
4.7K
R702
10K
SC501
SFOR1A42
+6V
+5V
+5V
+6.6V
C636
CK0.01Z
J517
OPEN
+5V(D2)
+5V(D3)
GND(D2)
GND(D3)
RELAY
V6V
VGND
+12V
-12V
PREGND
PREOUTGND
RLGND
PROTECT
CW155
15P_TUC-P
To
CONNECT UNIT
1U-3107-2
(SHEET 7/10)
C582
0.1Z
R717
220K
R718
4.7K
R719
4.7
R762
100
TR552
2SC3311A
C581
47/16
TH601
PTH9M04BB222TS2F333
1U-3108-1
POWER UNIT

	*1 F1	*2 F8	*3
*USA TAIWAN R.O.C	6.3A/125V 2061046001	8A/125V 2061046014	2. 20
ASIA EUROPE		2.5A/250V 2061015032	2. 20
JAPAN		8A/125V 2061052008	2. 20

NOTICE

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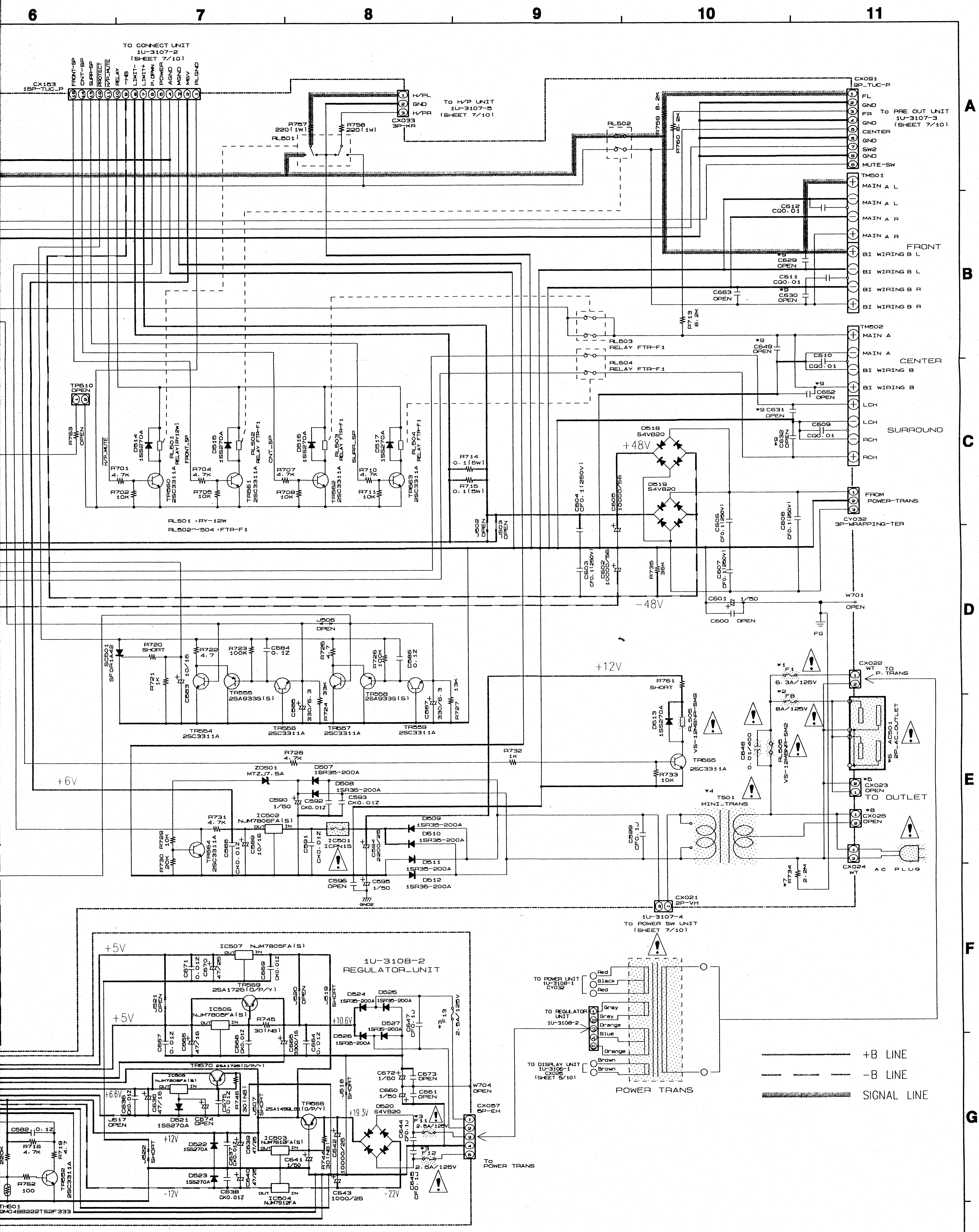
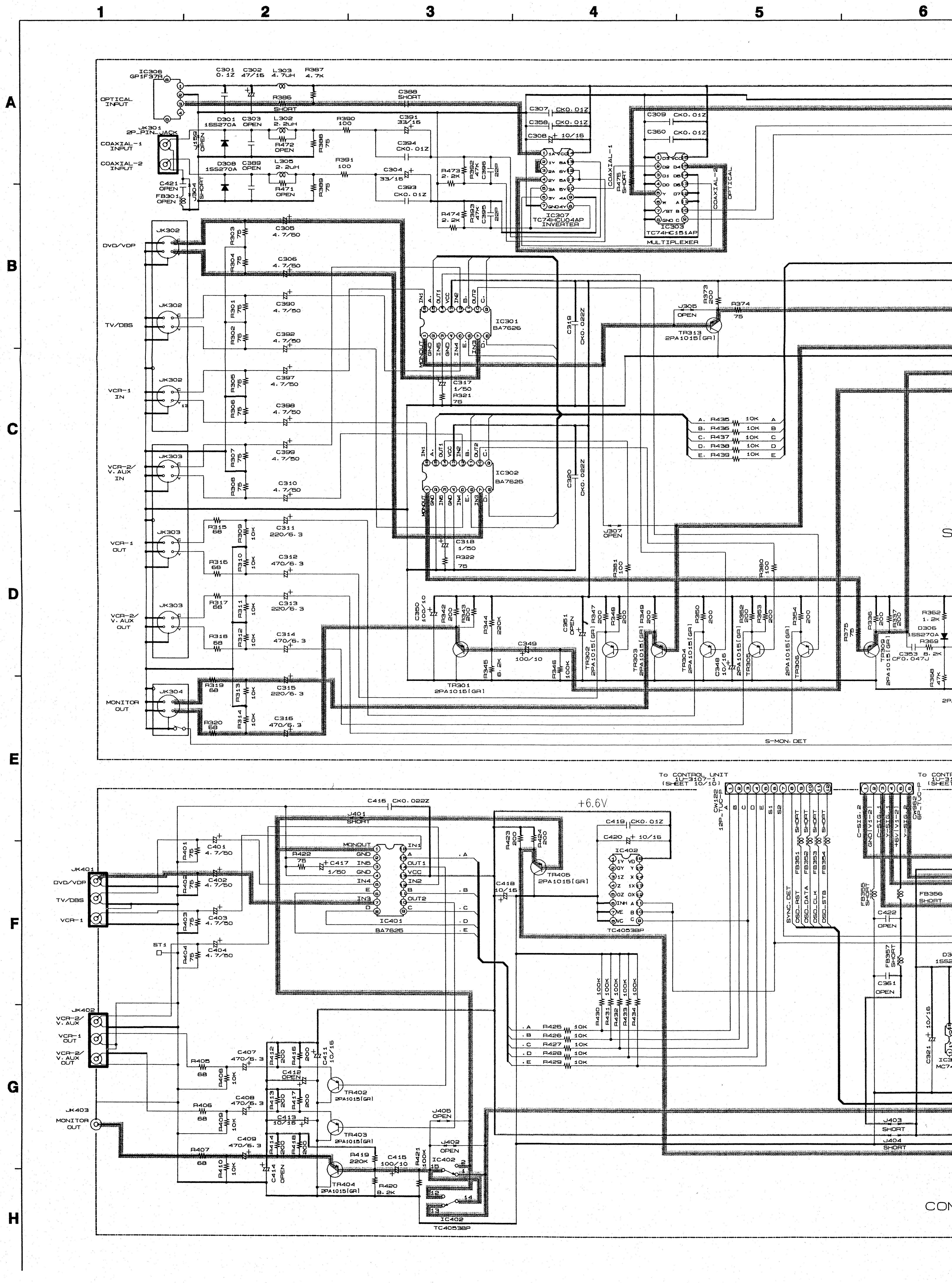
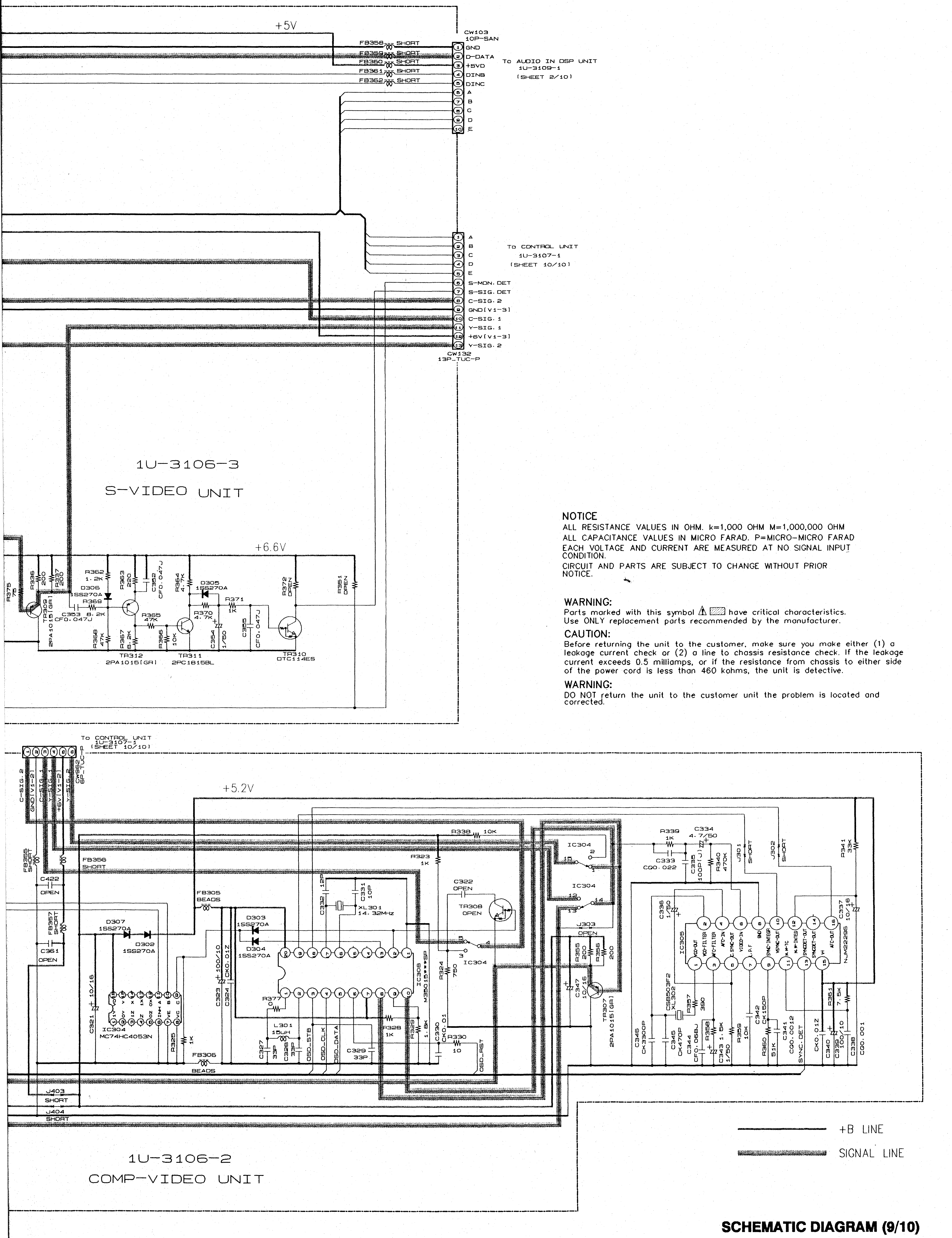

6
7
8
9
10
11
A
B
C
D
E
F
G
H
TO CONNECT UNIT 1U-3107-2 (SHEET 7/10)
CX153 15P-TUC-P
FRONT-SP
CNT-SP
SURR-SP
PROTECT
H/P_MUTE
RELAY
-HB
LIMIT-
LIMIT+
P.DPWN
POWER
AGND
MGND
M6V
RLGND
H/PL
GND
H/PR
CX033 3P-KR
To H/P UNIT 1U-3107-5 (SHEET 7/10)
R757 220(1W)
R758 220(1W)
RL501
RL502
R759 8.2K
R760 8.2K
CX091 9P_TUC-P
FL
GND
FR
GND
CENTER
GND
SW2
GND
MUTE-SW
To PRE OUT UNIT 1U-3107-3 (SHEET 7/10)
TM501
MAIN A L
MAIN A L
MAIN A R
MAIN A R
BI WIRING B L
BI WIRING B L
BI WIRING B R
BI WIRING B R
FRONT
C612 CQ0.01
C629 OPEN
C611 CQ0.01
C663 OPEN
C630 OPEN
R713 8.2K
RL503 RELAY FTR-F1
RL504 RELAY FTR-F1
TM502
MAIN A
MAIN A
BI WIRING B
BI WIRING B
CENTER
C649 OPEN
C610 CQ0.01
C662 OPEN
C631 OPEN
C632 OPEN
C609 CQ0.01
LCH
LCH
RCH
RCH
SURROUND
TP610 OPEN
R763 OPEN
H/P_MUTE
FRONT_SP
CNT_SP
SURR_SP
D514 1SS270A
D515 1SS270A
D516 1SS270A
D517 1SS270A
RL501 RELAY(RY12W)
RL502 RELAY FTR-F1
RL503 RELAY FTR-F1
RL504 RELAY FTR-F1
R701 4.7K
R702 10K
R704 4.7K
R705 10K
R707 4.7K
R708 10K
R710 4.7K
R711 10K
TR560 2SC3311A
TR561 2SC3311A
TR562 2SC3311A
TR563 2SC3311A
RL501 : RY-12W
RL502~504 : FTR-F1
R714 0.1(5W)
R715 0.1(5W)
J502 OPEN
J503 OPEN
D518 S4VB20
D519 S4VB20
+48V
-48V
C504 CF0.1(250V)
C505 10000/56
C503 CF0.1(250V)
C502 10000/56
R735 35K
C506 CF0.1(250V)
C507 CF0.1(250V)
C608 CF0.1(250V)
C601 1/50
C600 OPEN
FROM POWER-TRANS
CY032 3P-WRAPPING-TER
W701 OPEN
FG
J505 OPEN
SC501 SFOR1A42
R720 SHORT
R721 1K
C583 10/16
R722 4.7
R723 100K
C584 0.1Z
C586 330/6.3
R724 33K
R725 4.7
R726 100K
C585 0.1Z
C587 330/6.3
R727 13K
TR554 2SC3311A
TR555 2SA933S(S)
TR556 2SC3311A
TR557 2SC3311A
TR558 2SA933S(S)
TR559 2SC3311A
+12V
R761 SHORT
D513 1SS270A
RL505 VS-12MBNR-SM2
R732 1K
R733 10K
TR566 2SC3311A
+6V
R728 4.7K
ZD501 MTZJ7.5A
D507 1SR35-200A
D508 1SR35-200A
C590 1/50
C592 CK0.01Z
C593 CK0.01Z
R731 4.7K
IC502 NJM7806FA(S)
R729 10K
R730 20K
TR564 2SC3311A
C588 CK0.01Z
C589 10/16
C591 CK0.01Z
IC501 ICPN15
C594 2200/25
D509 1SR35-200A
D510 1SR35-200A
D511 1SR35-200A
D512 1SR35-200A
C596 OPEN
C595 1/50
GND2
C599 CF0.1J
C648 0.01/400
RL505 VS-12MBNR-SM2
T501 MINI_TRANS
F1 6.3A/125V
F8 8A/125V
CX022 WT TO P.TRANS
AC501 2P_AC_OUTLET
CX023 OPEN TO OUTLET
CX025 OPEN
CX024 WT
AC PLUG
R734 2.2M
CX021 2P-VH
1U-3107-4 To POWER SW UNIT (SHEET 7/10)
+5V
IC507 NJM7805FA(S)
C671 0.01Z
C670 47/25
C669 CK0.01Z
TR569 2SA1726(O/P/Y)
1U-3108-2 REGULATOR_UNIT
J521 OPEN
J520 OPEN
J519 SHORT
IC506 NJM7805FA(S)
R745 30(NB)
C657 0.01Z
C665 47/16
C668 CK0.01Z
C666 3300/16
C664 0.01Z
D524 1SR35-200A
D525 1SR35-200A
D527 1SR35-200A
D526 1SR35-200A
+10.6V
C647 CF0.1J
F13 2.5A/125V
TR570 2SA1726(O/P/Y)
IC505 NJM7808FA(S)
+6.6V
C636 CK0.01Z
C635 47/16
C675 0.01Z
R746 30(NB)
J507 SHORT
J517 OPEN
D521 1SS270A
C574 OPEN
TR565 2SA1489LBS(O/P/Y)
J518 SHORT
C572 1/50
C573 OPEN
C560 1/50
C561 OPEN
W704 OPEN
CX057 5P-EH
+19.3V
D520 S4VB20
C644 CF0.1J
F11 2.5A/125V
F12 2.5A/125V
C645 CF0.1J
+12V
D522 1SS270A
C637 CK0.01Z
C639 47/25
IC503 NJM7812FA(S)
C641 1/50
R744 30(NB)
C642 10000/25
J522 SHORT
D523 1SS270A
C638 CK0.01Z
C640 47/25
-12V
IC504 NJM7912FA
C643 1000/25
-22V
C582 0.1Z
R718 4.7K
R719 4.7
R762 100
TR552 2SC3311A
TH501 9M04BB222TS2F333
To POWER TRANS
TO POWER UNIT 1U-3108-1 CY032
TO REGULATOR UNIT 1U-3108-2
TO DISPLAY UNIT 1U-3106-1 CX025 (SHEET 5/10)
Red
Black
Red
Grey
Grey
Orange
Blue
Orange
Brown
Brown
POWER TRANS
+B LINE
-B LINE
SIGNAL LINE

	*1 F1	*2 F8	*3 F11 F12. F13	*4 T501	*5 CX023	*6 AC601	*7 R734	*8 CX025	*9 C629. 630. 631 C632. 649. 662
USA TAIWAN R.O.C	6.3A/125V 2061046001	8A/125V 2061046014	2.5A/125V 2061039076	2336073000	—	2P AC OUTLET	2.2M	—	—
ASIA EUROPE		2.5A/250V 2061015032	2.5A/250V 2061015032	2336058012	2P VH	—	—	2P W.T	CQ0.01
JAPAN		8A/125V 2061052008	2.5A/250V 2061015032	2330523006	—	2P AC OUTLET	—	—	—

SCHEMATIC DIAGRAM (8/10)

SCHEMATIC DIAGRAM (9/10)


1
2
3
4
5
6
A
B
C
D
E
F
G
H
IC306
GP1F37R
OPTICAL INPUT
C301 0.1Z
C302 47/16
L303 4.7uH
R387 4.7K
R386 SHORT
C388 SHORT
JK301
2P_PIN_JACK
COAXIAL-1 INPUT
COAXIAL-2 INPUT
J159 OPEN
J304 SHORT
C421 OPEN
FB301 OPEN
D301 1SS270A
C303 OPEN
L302 2.2uH
R472 OPEN
R388 75
D308 1SS270A
C389 OPEN
L305 2.2uH
R471 OPEN
R389 75
R390 100
R391 100
C391 33/16
C394 CK0.01Z
C304 33/16
C393 CK0.01Z
R473 2.2K
R392 47K
C396 22P
R474 2.2K
R393 47K
C395 22P
C307 CK0.01Z
C358 CK0.01Z
C308 10/16
IC307
TC74HCU04AP
INVERTER
COAXIAL-1
R475 SHORT
C309 CK0.01Z
C360 CK0.01Z
IC303
TC74HC151AP
MULTIPLEXER
COAXIAL-2
OPTICAL
JK302
DVD/VDP
TV/DBS
VCR-1 IN
JK303
VCR-2/ V.AUX IN
VCR-1 OUT
VCR-2/ V.AUX OUT
JK304
MONITOR OUT
R303 75
R304 75
C305 4.7/50
C306 4.7/50
R301 75
R302 75
C390 4.7/50
C392 4.7/50
R305 75
R306 75
C397 4.7/50
C398 4.7/50
R307 75
R308 75
C399 4.7/50
C310 4.7/50
R315 68
R309 10K
C311 220/6.3
R316 68
R310 10K
C312 470/6.3
R317 68
R311 10K
C313 220/6.3
R318 68
R312 10K
C314 470/6.3
R319 68
R313 10K
C315 220/6.3
R320 68
R314 10K
C316 470/6.3
IN1
A.
OUT1
VCC
IN2
B.
OUT2
C.
MONOUT
GND
IN5
IN4
E.
IN3
D.
IC301
BA7626
C317 1/50
R321 75
IC302
BA7625
C318 1/50
R322 75
C319 CK0.022Z
C320 CK0.022Z
J305 OPEN
R373 200
R374 75
TR313
2PA1015(GR)
A. R435 10K A
B. R436 10K B
C. R437 10K C
D. R438 10K D
E. R439 10K E
J307 OPEN
R381 100
R380 100
C350 100/10
R342 200
R343 200
R344 220K
R345 8.2K
C349 100/10
R346 100K
TR301
2PA1015(GR)
C351 OPEN
R347 200
R348 200
TR302
2PA1015(GR)
R349 200
TR303
2PA1015(GR)
R350 200
TR304
2PA1015(GR)
C348 10/16
R352 200
R353 200
TR305
2PA1015(GR)
R354 200
TR306
2PA1015(GR)
R375 75
R336 200
R337 200
TR309
2PA1015(GR)
R362 1.2K
D306 1SS270A
R369
C353 8.2K
CF0.047J
R358 47K
S-MON. DET
To CONTROL UNIT
1U-3107-1
(SHEET 10/10)
CW122
12P_TUC-P
S1
S2
SYNC. DET
OSD_RST
OSD_DATA
OSD_CLK
OSD_STB
FB351 SHORT
FB352 SHORT
FB353 SHORT
FB354 SHORT
C-SIG. 2
GND(V1-2)
C-SIG. 1
Y-SIG. 1
+6V(V1-2)
Y-SIG. 2
CW962
6P_TUC-P
FB355 SHORT
FB356 SHORT
C422 OPEN
FB357 SHORT
C361 OPEN
C321 10/16
J403 SHORT
J404 SHORT
C416 CK0.022Z
J401 SHORT
+6.6V
JK401
R401 75
C401 4.7/50
R402 75
C402 4.7/50
R403 75
C403 4.7/50
ST1
R404 75
C404 4.7/50
R422 75
C417 1/50
IC401
BA7626
R423 200
R424 200
TR405
2PA1015(GR)
C418 10/16
C419 CK0.01Z
C420 10/16
IC402
TC4053BP
R430 100K
R431 100K
R432 100K
R433 100K
R434 100K
R425 10K
R426 10K
R427 10K
R428 10K
R429 10K
JK402
JK403
R405 68
R408 10K
C407 470/6.3
R412 200
R416 200
C411 10/16
C412 OPEN
TR402
2PA1015(GR)
R406 68
R409 10K
C408 470/6.3
R413 200
R417 200
C413 10/16
TR403
2PA1015(GR)
J405 OPEN
R407 68
R410 10K
C409 470/6.3
R414 200
R418 200
C414 OPEN
R419 220K
C415 100/10
R421 100K
J402 OPEN
TR404
2PA1015(GR)
R420 8.2K
TC4053BP


+5V
CW103
10P-SAN
GND
D-DATA
+5VD
DINB
DINC
A
B
C
D
E
FB358 SHORT
FB359 SHORT
FB360 SHORT
FB361 SHORT
FB362 SHORT
To AUDIO IN DSP UNIT
1U-3109-1
(SHEET 2/10)
To CONTROL UNIT
1U-3107-1
(SHEET 10/10)
S-MON. DET
S-SIG. DET
C-SIG. 2
GND(V1-3)
C-SIG. 1
Y-SIG. 1
+6V(V1-3)
Y-SIG. 2
CW132
13P_TUC-P
1U-3106-3
S-VIDEO UNIT
+6.6V
R375 75
R336 200
R337 200
R362 1.2K
D306 1SS270A
R369 8.2K
C353 CF0.047J
TR309 2PA1015(GR)
R363 220
C352 CF0.047J
R364 4.7K
D305 1SS270A
R365 47K
R370 4.7K
R371 1K
R372 OPEN
R351 OPEN
R368 47K
R367 8.2K
R366 10K
C354 1/50
C355 CF0.047J
TR312 2PA1015(GR)
TR311 2PC1815BL
TR310 DTC114ES
To CONTROL UNIT
1U-3107-1
(SHEET 10/10)
C-SIG. 2
GND(V1-2)
C-SIG. 1
Y-SIG. 1
+6V(V1-2)
Y-SIG. 2
CW962
6P_TUC-P
+5.2V
FB355 SHORT
FB356 SHORT
C422 OPEN
FB357 SHORT
C361 OPEN
D307 1SS270A
D302 1SS270A
C321 10/16
IC304 MC74HC4053N
R325 1K
FB306 BEADS
FB305 BEADS
D303 1SS270A
D304 1SS270A
C323 100/10
C324 CK0.01Z
R377 0
L301 15UH
C327 33P
C328 33P
OSD_STB
OSD_CLK
OSD_DATA
C329 33P
R328 1K
R329 1.8K
IC308 M35015***SP
C332 12P
C331 10P
XL301 14.32MHz
C330 CK0.01
R330 10
OSD_RST
R324 750
R323 1K
R338 10K
C322 OPEN
TR308 OPEN
IC304
C347 10/16
R355 200
R356 200
J303 OPEN
TR307 2PA1015(GR)
R339 1K
C334 4.7/50
C333 CQ0.022
C335 100P(J)
R340 470K
J301 SHORT
J302 SHORT
R341 33K
C336 1/50
IC305
VCO-OUT
VCO-FILTER
AFC-FILTER
AFC-IN
C.SYNC-OUT
VIDEO-IN
L.P.F
GND
SYNC-INTEGR
VSYNC-OUT
M.M-TC
M.M-INTEG
SYNCDET-OUT
H
AFC-OUT
NJM2229S
C337 10/16
C346 CK3300P
C345 CK470P
CSB503F2 XL302
R357 390
C344 CF0.068J
R358 1.8K
C343 1/50
R359 10K
C342 CK150P
R360 51K
C341 CQ0.0012
SYNC. DET
CK0.01Z
C340
C339 100/10
R361 7.5K
C338 CQ0.001
J403 SHORT
J404 SHORT
1U-3106-2
COMP-VIDEO UNIT
+B LINE
SIGNAL LINE

NOTICE
ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

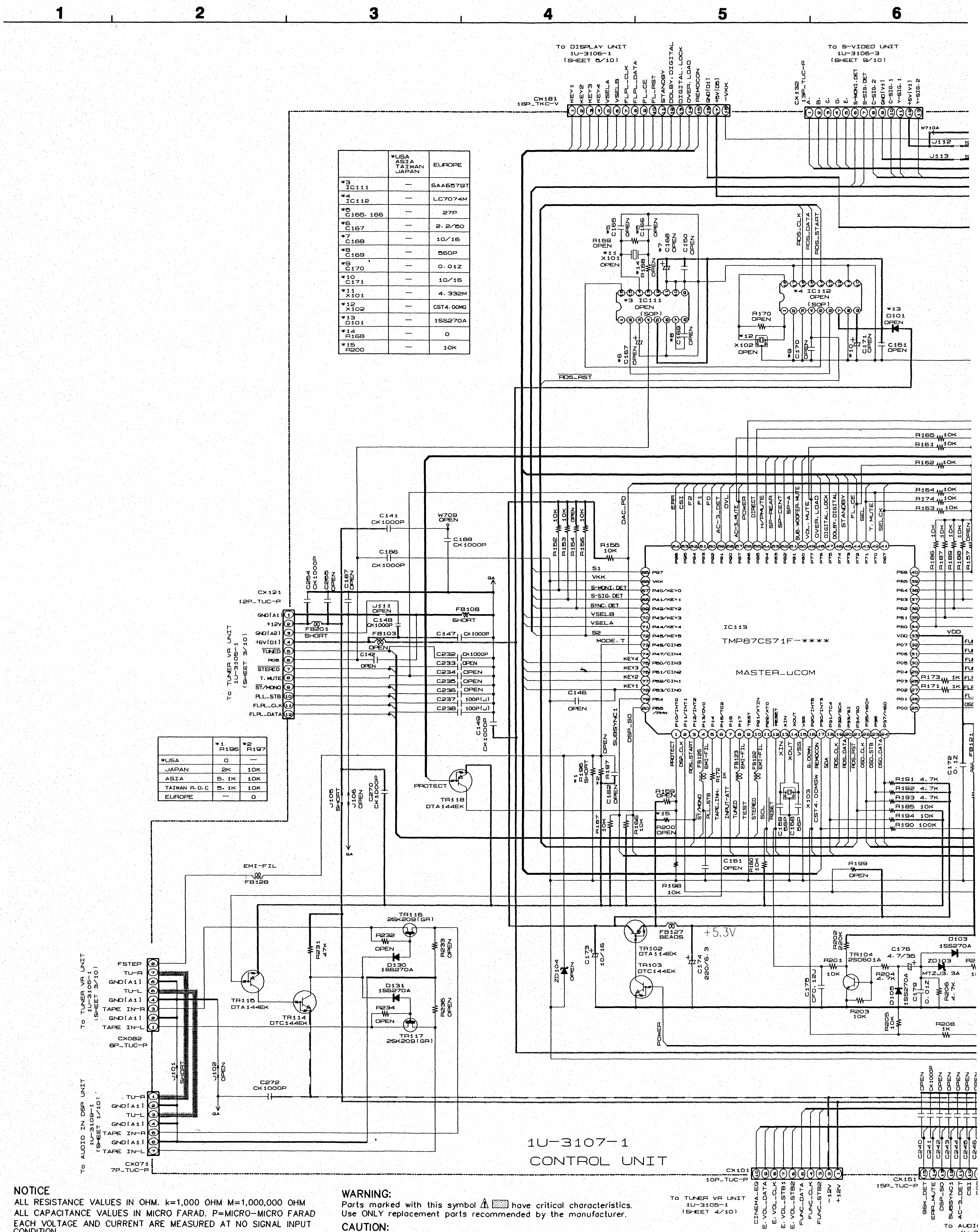
WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

WARNING:
DO NOT return the unit to the customer unit the problem is located and corrected.

SCHEMATIC DIAGRAM (9/10)

SCHEMATIC DIAGRAM (10/10)


1
2
3
4
5
6
To DISPLAY UNIT
1U-3106-1
(SHEET 8/10)
CW181
18P_TKC-V
KEY1
KEY2
KEY3
KEY4
VSELA
VSELB
FLPL_CLK
FLPL_DATA
FL_CE
FL_RST
STANDBY
DOLBY. DIGITAL
DIGITAL. LOCK
OVER. LOAD
REMOCON
GND[D1]
+5V[D5]
-VKK
To S-VIDEO UNIT
1U-3106-3
(SHEET 9/10)
CX132
13P_TUC-P
S-MONI. DET
S-SIG. DET
C-SIG. 2
GND[V1]
C-SIG. 1
Y-SIG. 1
+6V[V1]
Y-SIG. 2
J112
J113
W710A
*3 IC111 OPEN (SOP)
*4 IC112 OPEN (SOP)
RDS_CLK
RDS_DATA
RDS_START
RDS_RST
*13 D101 OPEN
To TUNER VR UNIT
1U-3105-1
(SHEET 3/10)
CX121
12P_TUC-P
GND[A1]
+12V
GND[A2]
+6V[D1]
TUNED
RDS
STEREO
T. MUTE
ST/MONO
PLL_STB
FLPL_CLK
FLPL_DATA
FB201 SHORT
FB103
FB108 SHORT
J111 OPEN
C254 CK1000P
C265 OPEN
C187 OPEN
C141 CK1000P
C186 CK1000P
C188 CK1000P
W709 OPEN
C147 CK1000P
C232 CK1000P
C233 OPEN
C234 OPEN
C235 OPEN
C236 OPEN
C237 100P(J)
C238 100P(J)
C149 CK1000P
IC113
TMP87CS71F-****
MASTER_uCOM
DAC_PD
R152 10K
R153 10K
R154 OPEN
R156 10K
R155 10K
R165 10K
R161 10K
R162 10K
R164 10K
R174 10K
R163 10K
R186 10K
R187 10K
R189 10K
R188 10K
R157 OPEN
R173 1K
R171 1K
R191 4.7K
R192 4.7K
R193 4.7K
R185 10K
R184 10K
R190 100K
ERR
CSI
F2
F1
F0
AC-3_DET
OVL
AC-3_MUTE
POWER
DIRECT
H/PMUTE
SP-REAR
SP-CENT
SP-A
SUB. WOOFER. MUTE
VOL. MUTE
OVER. LOAD
DIGITAL. LOCK
DOLBY. DIGITAL
STANDBY
FL_CE
SEL
T. MUTE
SEL_CK
S1
VKK
S-MONI. DET
S-SIG. DET
SYNC. DET
VSELB
VSELA
S2
MODE. T
KEY4
KEY3
KEY2
KEY1
C146 OPEN
PROTECT
DSP_CLK
RDS_START
ST/MONO
PLL_STB
TAPE_INH.
INPUT-ATT
TUNED
TEST
STEREO
SCL
RESET
XIN
XOUT
VSS
B. DOWN
REMOCON
SDA
RDS_CLK
RDS_DATA
RDS_RST
OSD_CLK
OSD_STB
OSD_DATA
FB126 EMI-FIL
R172 1K
FB123 EMI-FIL
FB122 EMI-FIL
X103 CST4.00MGW
C159 56P
C158 56P
SUBSYNC1
DSP_SO
*1 R196 SHORT
*2 R197 OPEN
C162 OPEN
R167 10K
R166 10K
R169 OPEN
*15 R200 OPEN
C161 OPEN
R160 10K
R199 OPEN
R198 10K
VDD
C172 0.1Z
FB121
PROTECT
TR118 DTA144EK
J105 SHORT
J106 OPEN
C270 CK1000P
EMI-FIL
FB128
TR116 2SK209(GR)
R232 OPEN
D130 1SS270A
D131 1SS270A
R234 OPEN
TR117 2SK209(GR)
R233 OPEN
R235 OPEN
R231 47K
TR115 DTA144EK
TR114 DTC144EK
To TUNER VR UNIT
1U-3105-1
(SHEET 3/10)
FSTEP
TU-R
GND[A1]
TU-L
GND[A1]
TAPE IN-R
GND[A1]
TAPE IN-L
CX082
8P_TUC-P
J101 SHORT
J102 OPEN
C272 CK1000P
To AUDIO IN DSP UNIT
1U-3109-1
(SHEET 1/10)
CX071
7P_TUC-P
1U-3107-1
CONTROL UNIT
ZD104 OPEN
C173 10/16
FB127 BEADS
+5.3V
TR102 DTA114EK
TR103 DTC144EK
C174 220/6.3
POWER
R202 220K
R201 10K
TR104 2SD601A
R204 4.7K
R203 10K
C175 CF0.12J
C176 4.7/35
D103 1SS270A
ZD103 MTZJ3.3A
D105 1SS270A
C179 0.01Z
R206 4.7K
R205 10K
R208 1K
CX101
10P_TUC-P
CINEMA_EQ
E. VOL_DATA
E. VOL_CLK
E. VOL_STB1
E. VOL_STB2
FUNC_DATA
FUNC_CLK
FUNC_STB2
-12V
+12V
CX151
15P_TUC-P
96K_DET
ERR_MUTE
DSP_SO
SUBSYNC1
AC-3_DET
CSI
C240
C241
C242
C243
C244
C245
C246
OPEN
CK1000P
To TUNER VR UNIT
1U-3105-1
(SHEET 4/10)

	*USA ASIA TAIWAN JAPAN	EUROPE
*3 IC111	—	SAA6579T
*4 IC112	—	LC7074M
*5 C165, 166	—	27P
*6 C167	—	2.2/50
*7 C168	—	10/16
*8 C169	—	560P
*9 C170	—	0.01Z
*10 C171	—	10/16
*11 X101	—	4.332M
*12 X102	—	CST4.00MG
*13 D101	—	1SS270A
*14 R168	—	0
*15 R200	—	10K

	*1 R196	*2 R197
*USA	0	—
JAPAN	2K	10K
ASIA	5.1K	10K
TAIWAN R.O.C	5.1K	10K
EUROPE	—	0

NOTICE

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD

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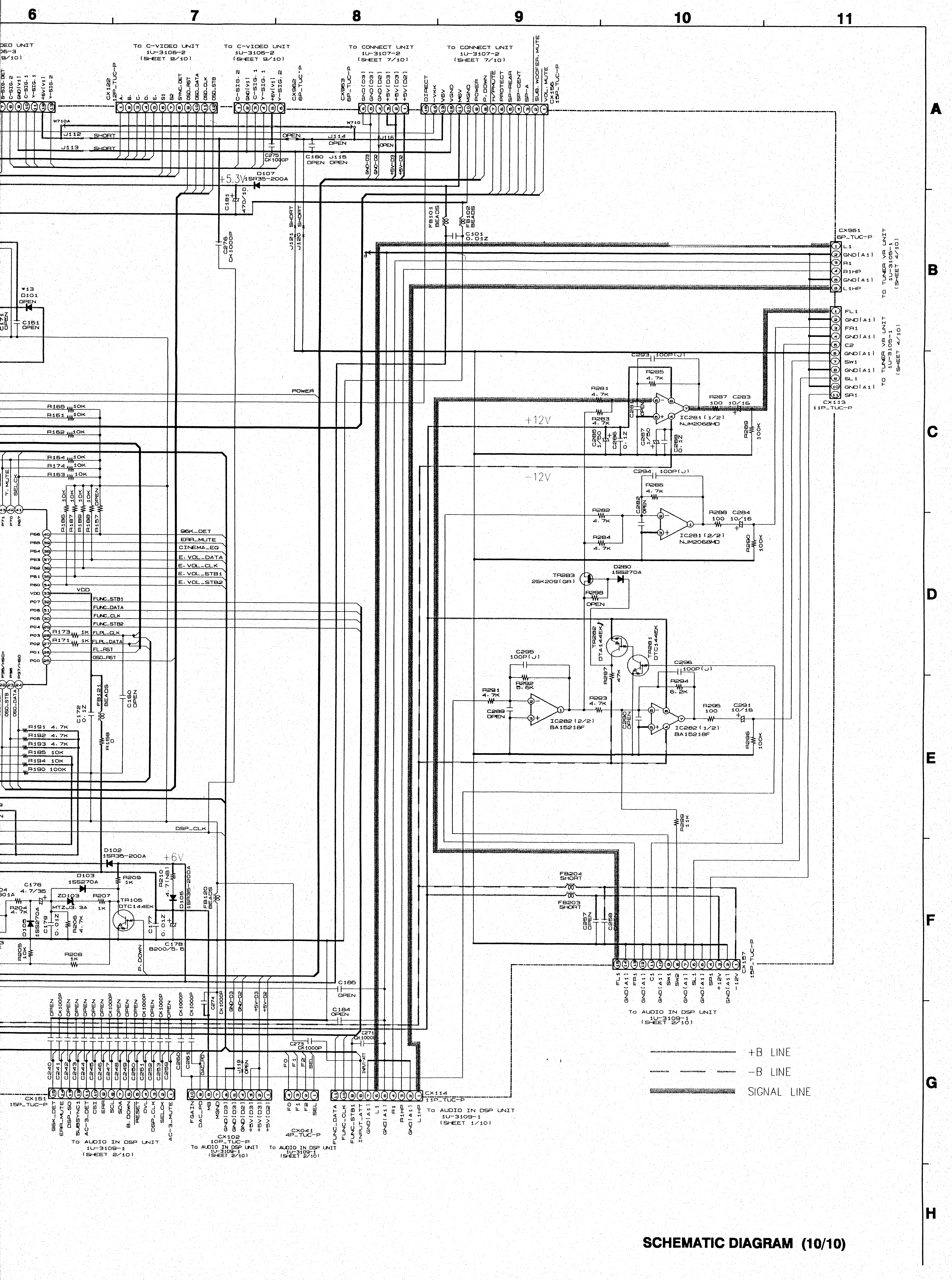
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is detective.

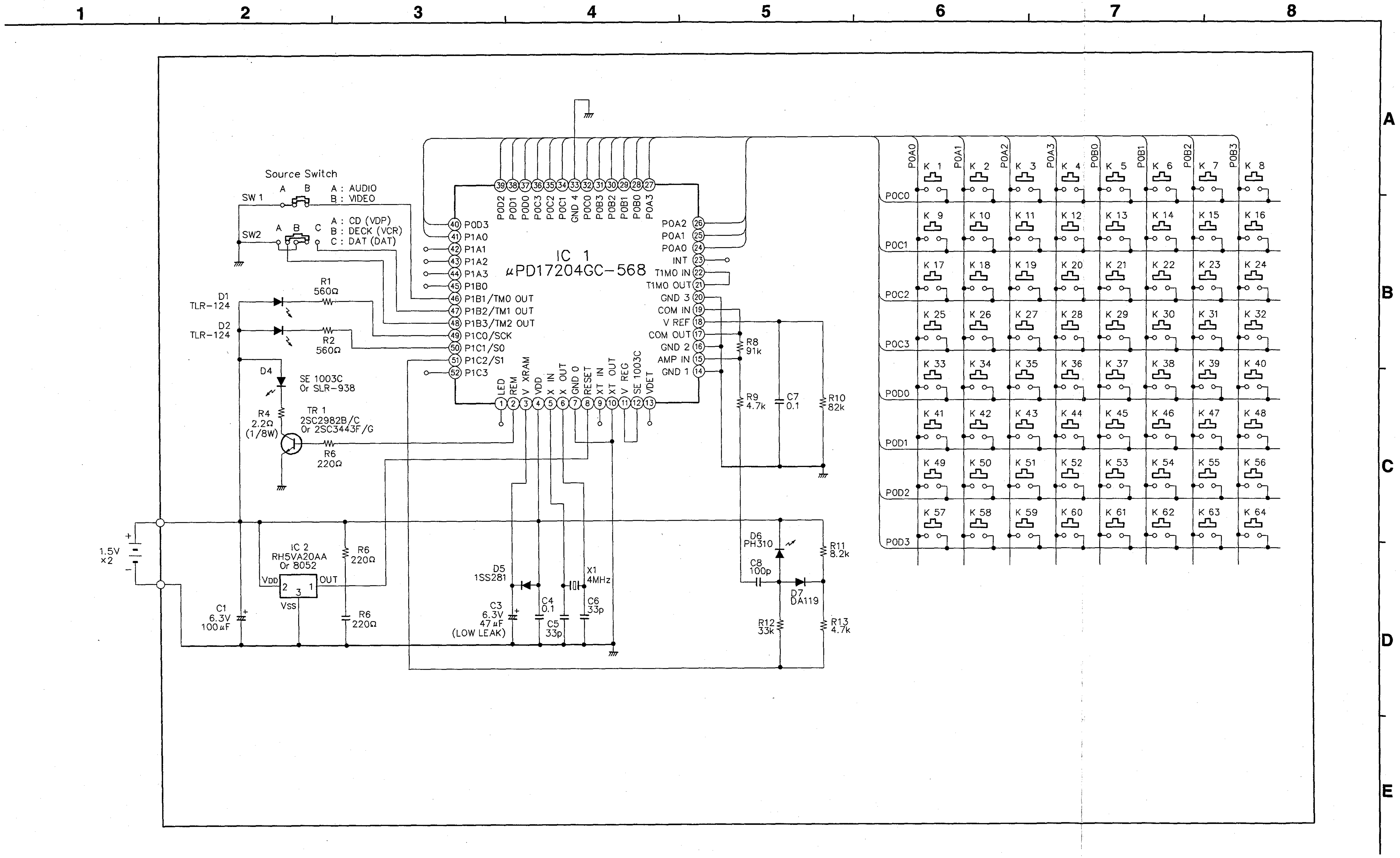
WARNING:

DO NOT return the unit to the customer unit the problem is located and corrected.


6
7
8
9
10
11
A
B
C
D
E
F
G
H
To C-VIDEO UNIT 1U-3106-2 (SHEET 9/10)
CX122 12P_TUC-P
CX962 6P_TUC-P
CX963 6P_TUC-P
To CONNECT UNIT 1U-3107-2 (SHEET 7/10)
CX156 15P_TUC-P
CX961 6P_TUC-P
CX113 11P_TUC-P
TO TUNER VR UNIT 1U-3105-1 (SHEET 4/10)
IC281 (1/2) NJM2068MD
IC281 (2/2) NJM2068MD
IC282 (2/2) BA15218F
IC282 (1/2) BA15218F
TR283 2SK209(GR)
TR282 DTA144EK
TR281 DTC144EK
TR105 DTC144EK
D280 1SS270A
D107 1SR35-200A
D102 1SR35-200A
D103 1SS270A
D106 1SR35-200A
ZD103 MTZJ3.3A
FB101 BEADS
FB102 BEADS
FB120 BEADS
FB121 BEADS
FB203 SHORT
FB204 SHORT
+5.3V
+6V
+12V
-12V
POWER
DSP_CLK
P. DOWN
CX157 15P_TUC-P
To AUDIO IN DSP UNIT 1U-3109-1 (SHEET 2/10)
CX151 15P_TUC-P
CX102 10P_TUC-P
CX041 4P_TUC-P
CX114 11P_TUC-P
To AUDIO IN DSP UNIT 1U-3109-1 (SHEET 1/10)
+B LINE
-B LINE
SIGNAL LINE

SCHEMATIC DIAGRAM (10/10)

REMOTE CONTROL UNIT (RC-844)


1
2
3
4
5
6
7
8
A
B
C
D
E
Source Switch
SW 1
A B
A : AUDIO
B : VIDEO
SW2
A B C
A : CD (VDP)
B : DECK (VCR)
C : DAT (DAT)
IC 1
μPD17204GC-568
39 POD2
38 POD1
37 POD0
36 POC3
35 POC2
34 POC1
33 GND 4
32 POC0
31 POB3
30 POB2
29 POB1
28 POB0
27 POA3
40 POD3
41 P1A0
42 P1A1
43 P1A2
44 P1A3
45 P1B0
46 P1B1/TM0 OUT
47 P1B2/TM1 OUT
48 P1B3/TM2 OUT
49 P1C0/SCK
50 P1C1/S0
51 P1C2/S1
52 P1C3
26 POA2
25 POA1
24 POA0
23 INT
22 T1M0 IN
21 T1M0 OUT
20 GND 3
19 COM IN
18 V REF
17 COM OUT
16 GND 2
15 AMP IN
14 GND 1
1 LED
2 REM
3 V XRAM
4 VDD
5 X IN
6 X OUT
7 GND 0
8 RESET
9 XT IN
10 XT OUT
11 V REG
12 SE 1003C
13 VDET
D1 TLR-124
D2 TLR-124
R1 560Ω
R2 560Ω
D4
SE 1003C
Or SLR-938
R4 2.2Ω (1/8W)
TR 1
2SC2982B/C
Or 2SC3443F/G
R6 220Ω
R8 91k
R9 4.7k
C7 0.1
R10 82k
1.5V ×2
IC 2
RH5VA20AA
Or 8052
VDD
OUT
VSS
R6 220Ω
R6 220Ω
C1 6.3V 100μF
D5 1SS281
C3 6.3V 47μF (LOW LEAK)
C4 0.1
C5 33p
X1 4MHz
C6 33p
D6 PH310
C8 100p
D7 DA119
R11 8.2k
R12 33k
R13 4.7k
POA0
POA1
POA2
POA3
POB0
POB1
POB2
POB3
POC0
POC1
POC2
POC3
POD0
POD1
POD2
POD3
K 1
K 2
K 3
K 4
K 5
K 6
K 7
K 8
K 9
K 10
K 11
K 12
K 13
K 14
K 15
K 16
K 17
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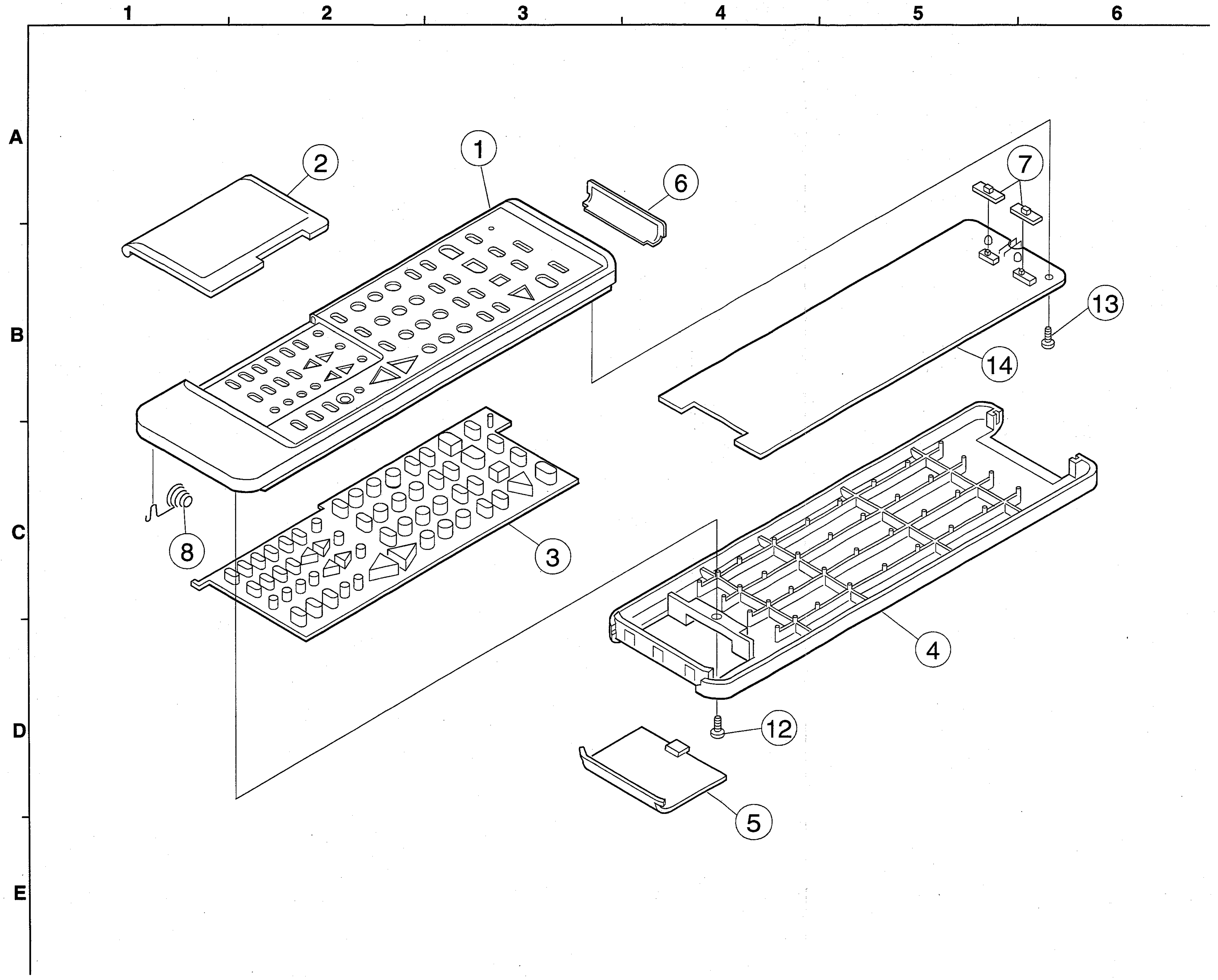
K 43
K 44
K 45
K 46
K 47
K 48
K 49
K 50
K 51
K 52
K 53
K 54
K 55
K 56
K 57
K 58
K 59
K 60
K 61
K 62
K 63
K 64

EXPLODED VIEW OF REMOTE CONTROL UNIT (RC-844)



PARTS LIST OF REMOTE CONTROL UNIT (RC-844)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
◉ 1	9H3 1000 188	Top Case (RC844) Ass'y		1s
◉ 2	9H3 1000 168	Cover		1
◉ 3	9H3 1000 182	Switch Rubber		1
◉ 4	9H3 1000 166	Bottom Case		1
◉ 5	9H3 1000 167	Battery Cover		1
◉ 6	9H3 1000 148	Filter		1
7	9H3 1000 150	Slide Knob		2
8	9H3 1000 152	Coil Spring		1
12	9H3 1000 185	Tapping Screw 2x5		1
13	9H3 1000 107	Tapping Screw 2x5		1
14	9H3 1000 195	Main P.W.B. Ass'y		
IC1	9H3 1000 194	IC µPD17204GC-568	µ-Com	1
IC2	9H3 1000 158	IC RH5VA10AA	vol.Detector	1
Q1	9H3 1000 070	Transistor 2SC2982	Chip	1
D1,2	9H3 1000 028	LED TLR124	Visible-Red	2
D4	9H3 1000 131	LED SE1003-C	Inflared	1
D5	9H3 1000 087	Diode 1SS281		1
D6	9H3 1000 029	Diode PH310	Photo-PIN	1
D7	9H3 1000 071	Diode DA119	Chip	1
X1	9H3 1000 088	Ceramic Resonator	KBR4.0M503	1
SW1	9H3 1000 089	Slide Switch		1
SW2	9H3 1000 074	Slide Switch		1
C1	254 4213 034	Electrolytic 100µF/6.3V	CE04W0J101M	1
C3	254 4213 021	Electrolytic 47µF/6.3V	CE04W0J470M	1

446

DENON

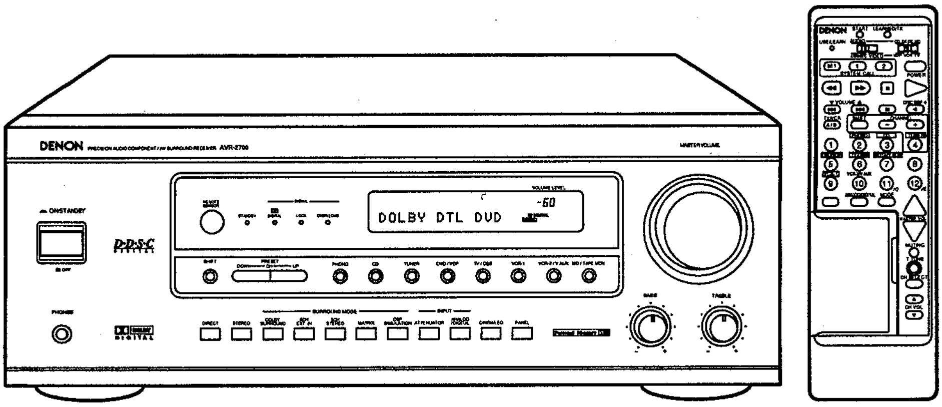
Hi-Fi AV Surround Receiver

For Europe Model

SERVICE MANUAL

MODEL AVR-2700

AV SURROUND RECEIVER



This service manual is supplement for Europe model. For servicing, refer to the service manual of AVR-2700 (For U.S.A. model) already issued at the same time.

— TABLE OF CONTENTS —

ADDITIONAL SEMICONDOCTORS 2
NOTE FOR PARTS LIST 3
ADDENDUM PARTS LIST OF PRINTED WIRING BOARD .... 4~5
SCHEMATIC DIAGRAM 5
EXPLODED VIEW OF CHASSIS AND CABINET 6
ADDENDUM PARTS LIST OF EXPLODED VIEW 7

- **Some illustrations using in this service manual are slightly different from the actual set.**

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS

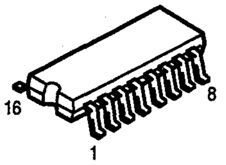
The following check should be performed for the continued protection of the customer and service technician.

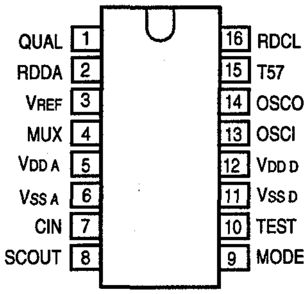
LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

ADDITIONAL SEMICONDUCTORS

SAA6579T (CO: IC111)

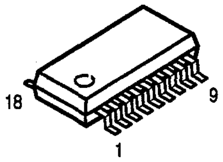


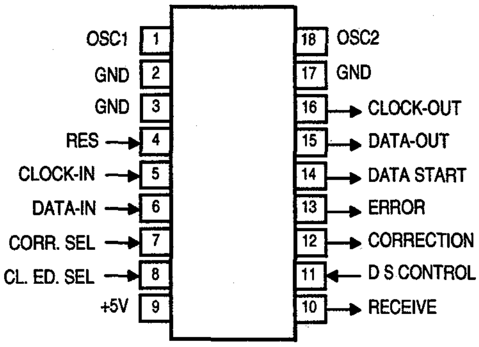

QUAL 1
RDDA 2
VREF 3
MUX 4
VDD A 5
VSS A 6
CIN 7
SCOUT 8
16 RDCL
15 T57
14 OSCO
13 OSCI
12 VDD D
11 VSS D
10 TEST
9 MODE

SAA6579T Terminal Function

Pin No.	Symbol	Function
1	QUAL	Quality indication output.
2	RDDA	RDS data output.
3	VREF	Reference voltage output (0.5 VDD A).
4	MUX	Multiplex signal input.
5	VDD A	+5V power supply for analog part.
6	VSS A	Ground for analog part (0V).
7	CIN	Subcarrier input to comparator.
8	SCOUT	Subcarrier ouput of reconstruction filter.
9	MODE	Oscillation mode/test control input.
10	TEST	Test enable input.
11	VSS D	Ground for digital part (0V).
12	VDD D	+5V power supply for digital part.
13	OSCI	Oscillator input.
14	OSCO	Oscillator output.
15	T57	57kHz clock signal output.
16	RDCL	RDS clock output.

LC7074M (CO: IC112)




OSC1 1
GND 2
GND 3
RES 4
CLOCK-IN 5
DATA-IN 6
CORR. SEL 7
CL. ED. SEL 8
+5V 9
18 OSC2
17 GND
16 CLOCK-OUT
15 DATA-OUT
14 DATA START
13 ERROR
12 CORRECTION
11 D S CONTROL
10 RECEIVE

NOTE FOR PARTS LIST

- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

Resistors

Ex.:	RN	14K	2E	182	G	FR
	Type	Shape and performance	Power	Resistance	Allowable error	Others

RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : Metal film RK : Metal mixture	2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming

*** Resistance**

1 8 2 ⇒ 1800 ohm = 1.8 kohm
Indicates number of zeros after effective number.
2-digit effective number.

- Units: ohm

1 R 2 ⇒ 1.2 ohm
1-digit effective number.
2-digit effective number, decimal point indicated by R.

- Units: ohm

Capacitors

Ex.:	CE	04W	1H	2R2	M	BP
	Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others

CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CQ : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% −20% P : +100% −0% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For change and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming

*** Capacity (electrolyte only)**

2 2 2 ⇒ 2200µF
Indicates number of zeros after effective number.
2-digit effective number.

- Units: µF.

2 R 2 ⇒ 2.2µF
1-digit effective number.
2-digit effective number, decimal point indicated by R.

- Units: µF.

*** Capacity (except electrolyte)**

2 2 2 ⇒ 2200pF=0.0022µF
(More than 2)— Indicates number of zeros after effective number.
2-digit effective number.

- Units: µF.

2 2 1 ⇒ 220pF
(0 or 1)— Indicates number of zeros after effective number.
2-digit effective number.

- Units: pF.

- When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

ADDENDUM PARTS LIST OF P.W.B. UNIT ASS'Y

1U-3105 TUNER AMP. UNIT A'SSY

Ref. No.	U.S.A. Model		Europe Model	
	Part No.	Part Name	Part No.	Part Name
	1U-3105	Tuner amp. unit ass'y	1U-3105B	Tuner amp. unit ass'y
IC501	216 0102 008	Front end	216 9013 004	FM front end (U) S
TR501	—	—	275 0074 902	FET 2SK211-Y/GR
R502	—	—	247 0018 905	Carbon chip 0 ohm 1/10W±10%
R515	247 0005 905	Carbon chip 100 ohm 1/10W ±5%	247 0011 928	Carbon chip 39 kohm 1/10W±5%
R516	247 0007 945	Carbon chip 1 kohm 1/10W ±5%	247 0006 920	Carbon chip 330 ohm 1/10W ±5%
R517	—	—	247 0006 920	Carbon chip 330 ohm 1/10W ±5%
R535	247 0010 945	Carbon chip 18 kohm 1/10W ±5%	—	—
R536	247 0018 905	Carbon chip 0 ohm 1/10W ±10%	247 0008 944	Carbon chip 2.7 kohm 1/10W ±5%
R544,545	247 0012 927	Carbon chip 100 kohm 1/10W ±5%	247 0012 969	Carbon chip 150 kohm 1/10W±5%
R555,556	247 0009 927	Carbon chip 5.6 kohm 1/10W ±5%	247 0008 960	Carbon chip 3.3 kohm 1/10W ±5%
R575,576	247 0012 943	Carbon chip 120 kohm 1/10W ±5%	247 0012 998	Carbon chip 200 kohm 1/10W ±5%
R579~581	247 0018 905	Carbon chip 0 ohm 1/10W ±10%	—	—
R645	—	—	247 0009 985	Carbon chip 10 kohm 1/10W ±5%
R646	—	—	247 0009 927	Carbon chip 5.6 kohm 1/10W ±5%
R705,706	247 0006 962	Carbon chip 470 ohm 1/10W ±5%	247 0005 905	Carbon chip 100 ohm 1/10W ±5%
R721,722	247 0006 962	Carbon chip 470 ohm 1/10W ±5%	247 0005 905	Carbon chip 100 ohm 1/10W ±5%
R737,738	247 0006 962	Carbon chip 470 ohm 1/10W ±5%	247 0005 905	Carbon chip 100 ohm 1/10W ±5%
R793~798	247 0018 905	Carbon chip 0 ohm 1/10W ±10%	247 0006 962	Carbon chip 470 ohm 1/10W ±5%
C405,406	253 4537 924	Ceramic 33 pF/50V ±5%	253 1179 945	Ceramic 220 pF/50V ±10%
C409,410	254 4254 938	Electrolytic 47 μF/16V ±20%	254 4254 941	Electrolytic 100 μF/16V ±20%
C415,416	254 4254 912	Electrolytic 22 μF/16V ±20%	254 4254 938	Electrolytic 47 μF/16V ±20%
C435,436	253 4537 924	Ceramic 33 pF/50V ±5%	253 1179 945	Ceramic 220 pF/50V ±10%
C462	253 4537 924	Ceramic 33 pF/50V ±5%	253 1179 945	Ceramic 220 pF/50V ±10%
C518	—	—	257 0005 960	Ceramic chip 270 pF/50V ±5%
C519	—	—	257 0004 961	Ceramic chip 100 pF/50V ±5%
C527	254 4260 948	Electrolytic 1 μF/50V ±20%	254 4260 922	Electrolytic 0.33 μF/50V ±20%
C536	257 0004 961	Ceramic chip 100 pF/50V ±5%	—	—
C537	—	—	254 4254 912	Electrolytic 22 μF/16V ±20%
C539,540	257 0006 972	Ceramic chip 750 pF/50V ±5%	257 0005 986	Ceramic chip 330 pF/50V ±5%
C564,565	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
C701,702	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
C715,716	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
C729,730	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
CF501	261 0135 907	Ceramic filter MA8	261 0146 006	Ceramic filter FMCFSK107M2-A
CF502	261 0136 906	Ceramic filter MS2G	261 0146 006	Ceramic filter FMCFSK107M2-A
LF501	—	—	232 9010 009	Antibirdie filter
LF503,504	—	—	232 0085 004	LPF

1U-3106 DISPLAY VIDEO UNIT ASS'Y

Ref. No.	U.S.A. Model		Europe Model	
	Part No.	Part Name	Part No.	Part Name
	1U-3106	Display video unit ass'y	1U-3106B	Display video unit ass'y
C205,206	253 4537 924	Ceramic 33 pF/50V ±5%	253 1179 987	Ceramic 470 pF/50V ±10%

1U-3107 CONTROL UNIT ASS'Y

Ref. No.	U.S.A. Model		Europe Model	
	Part No.	Part Name	Part No.	Part Name
	1U-3107	Control unit ass'y	1U-3107B	Control unit ass'y
IC111	—	—	262 1701 906	IC SAA6579T
IC112	—	—	262 1929 908	IC LC7074M-TE-R
D101	—	—	276 0432 903	Diode 1SS270A
R168	—	—	247 0018 905	Carbon chip 0 ohm 1/10W ±10%
R196	—	Short	—	Open
R197	—	Open	—	Short
R200	—	—	247 0009 985	Carbon chip 10 kohm 1/10W ±5%
C165,166	—	—	257 0003 920	Ceramic chip 27 pF/50V ±5%
C167	—	—	254 4260 951	Electrolytic 2.2 μF/50V ±20%
C168	—	—	254 4254 909	Electrolytic 10 μF/16V ±20%
C169	—	—	257 0006 943	Ceramic chip 560 pF/50V ±5%
C170	—	—	257 0012 966	Ceramic chip 0.01 μF/50V 80%, ±20%
C171	—	—	254 4254 909	Electrolytic 10 μF/16V ±20%
C186	257 0008 983	Ceramic chip 1000 pF/50V±5%	—	—
X101	—	—	399 0178 007	Crystal 4.332 MHz
X102	—	—	399 0191 903	Ceramic 4.00 MHz

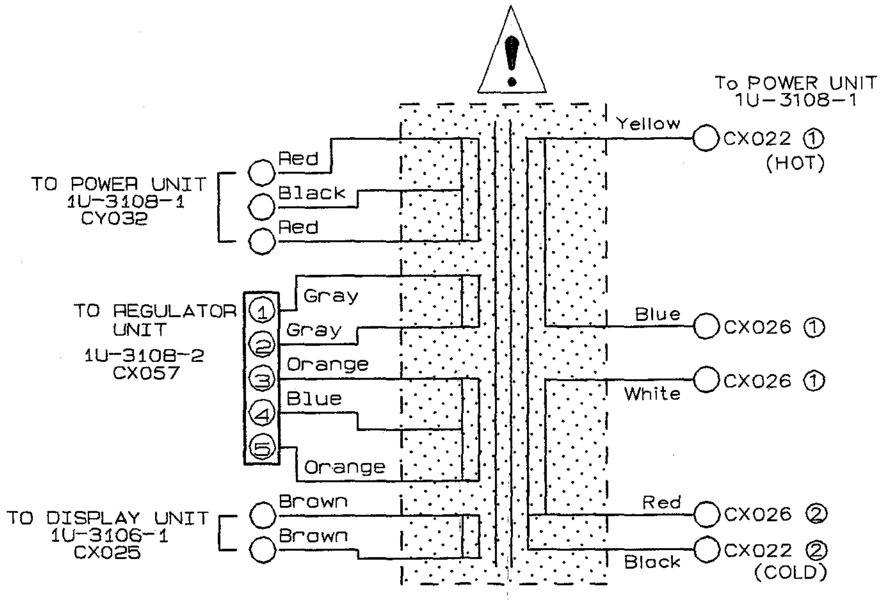
1U-3109 AUDIO IN DSP UNIT ASS'Y

Ref. No.	U.S.A. Model		Europe Model	
	Part No.	Part Name	Part No.	Part Name
	1U-3109	Audio in DSP unit ass'y	1U-3109A	Audio in DSP unit ass'y
R601,602	247 0018 905	Carbon chip 0 ohm 1/10W ±10%	247 0007 974	Carbon chip 1.3 kohm 1/10W ±5%
C509~512	—	—	257 0004 961	Ceramic chip 100 pF/50V ±5%
C617~626	—	—	257 0005 986	Ceramic chip 330 pF/50V ±5%
C661,662	—	—	257 0004 961	Ceramic chip 100 pF/50V ±5%
C887	—	—	257 0008 983	Ceramic chip 1000 pF/50V ±5%
C888,889	257 0008 983	Ceramic chip 1000 pF/50V ±5%	—	—
C945	—	—	257 0004 987	Ceramic chip 120 pF/50V ±5%
C996	—	—	247 0018 905	Carbon chip 0 ohm 1/10W ±10%
LF601,602	—	—	235 9003 002	FTZ choke coil
W702,703	—	—	001 0025 017	Vinyl wire
—	—	—	414 0851 005	Shield bracket
—	—	—	203 0312 038	Wire ass.

1U-3108 POWER AMP. UNIT ASS'Y

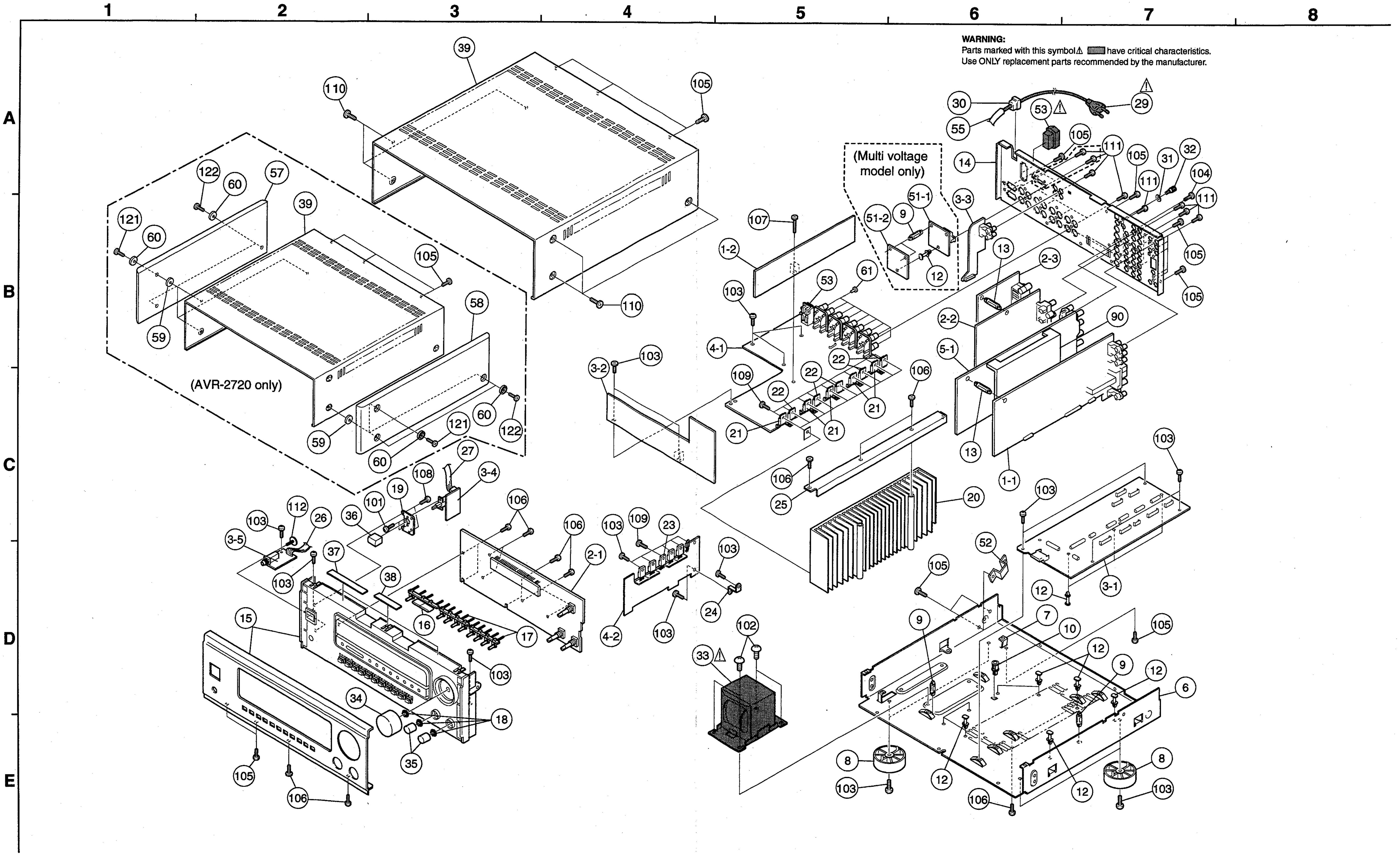
Ref. No.	U.S.A. Model		Europe Model		
	Part No.	Part Name	Part No.	Part Name	Remarks
	1U-3108	Power amp. unit ass'y	1U-3108B	Power amp. unit ass'y	
R734	242 2009 001	Composition 2.2 Mohm 1/2W ±10%	—	—	
⚠AC501	203 3976 002	AC outlet (2P)	—	—	
CX23	—	—	205 0581 001	2P VH connector base	
CX26	—	—	205 0348 024	2P wrapping terminal	
⚠F1	206 1046 001	Fuse 6.3A UL 20mm	206 1015 074	Fuse 3.15A	
⚠F8	206 1046 014	Fuse 8A	206 1015 032	Fuse 2.5A	
⚠F11,12	206 1039 076	Fuse 2.5A	206 1015 032	Fuse 2.5A	
⚠F13	206 1039 076	Fuse 2.5A	206 1015 032	Fuse 2.5A	
⚠T501	233 6073 000	Power trans. (Mini)—EU	233 6058 012	Power trans. (Mini)—E2	
	—	—	415 0299 000	Condenser cover	for C684
	—	—	513 2585 045	Fuse label	for F1
	—	—	513 2585 074	Fuse label	for F8,11,12,13

SCHEMATIC DIAGRAM (POWER TRANS)



POWER TRANS

EXPLODED VIEW OF CHASSIS AND CABINET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(Multi voltage model only)
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WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

ADDENDUM PARTS LIST OF EXPLODED VIEW

Ref. No.	Part Name	U.S.A. Model		Europe Model	
		Part No.	Q'ty	Part No.	Q'ty
14	Back panel	105 1281 000		105 1281 039	
15	Inner panel ass'y	146 2065 019		146 2065 048	
⚠ 29	AC cord	206 2060 002		206 2063 009	
⚠ 33	Power trans.	233 6253 008		233 6254 007	
52	Side bracket	—		412 2955 107	
⚠ 53	AC outlet	203 3976 002		203 3942 007	
54	3P VH connector cord	—		203 5177 016	
55	UL tube (8.3)	—		415 0546 070	
56	Caution label	513 3156 004		—	
61	Push rivet	—	—	477 0096 007	16
90	Earth plate	—		414 0852 004	
105	Screw 3×8 CBTS(S)–B	473 7015 018	11	473 7015 018	13
111	Fixing screw	477 0064 107	23	477 0064 107	21
205	Instruction manual	511 3263 001		511 3286 004	
208	RC–844 remocon unit	399 0498 004		—	
208	RC–845 remocon unit	—		399 0498 017	
214	UPC label	517 1318 066		—	
214	E2 POS label	—		517 1356 031	
224	DEL warranty home	515 0690 307		—	